



PRODUCT NAME : EC103 0.8A 400V SCR

PRICE : Rs 35.00

SKU : RM1946

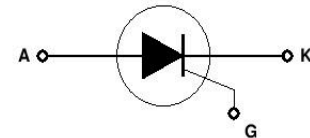
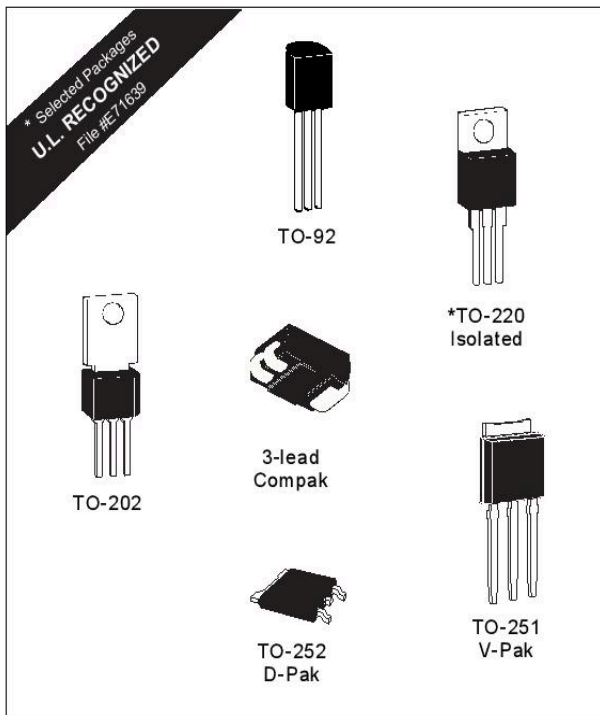
DESCRIPTION



SEE THE PRODUCT PAGE FOR MORE DETAILS. Copyrights by Robomart.com

Features

- Gate Turn-On Voltage (Vgt): 0.8V
- Peak Off-State Voltage(Vdrm): 400V
- On-State Current (It): 0.8A
- Gate Current (Igt): 12μA



Sensitive SCRs

(0.8 A to 10 A) RoHS

General Description

The Teccor line of sensitive SCR semiconductors are half-wave unidirectional, gate-controlled rectifiers (SCR-thyristor) which complement Teccor's line of power SCRs. This group of packages offers ratings of 0.8 A to 10 A, and 200 V to 600 V with gate sensitivities of 12 μ A to 500 μ A. For gate currents in the 10 mA to 50 mA ranges, see "SCRs" section of this catalog.

The TO-220 and TO-92 are electrically isolated where the case or tab is internally isolated to allow the use of low-cost assembly and convenient packaging techniques.

Teccor's line of SCRs features glass-passivated junctions to ensure long-term device reliability and parameter stability. Teccor's glass offers a rugged, reliable barrier against junction contamination.

Tape-and-reel packaging is available for the TO-92 package. Consult the factory for more information.


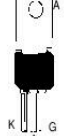



Variations of devices covered in this data sheet are available for custom design applications. Consult the factory for more information.

Features

- RoHS Compliant
- Electrically-isolated TO-220 package
- High voltage capability — up to 600 V
- High surge capability — up to 100 A
- Glass-passivated chip

Compak Features

- Surface mount package — 0.8 A series
- New small-profile three-leaded Compak package
- Four gate sensitivities available
- Packaged in embossed carrier tape with 2,500 devices per reel
- Can replace SOT-223

| TYPE | Part Number | | | | | I_T | | V_{DRM} & V_{RRM} | I_{GT} | I_{DRM} & I_{RRM} | | | V_{TM} |
|---|--|---|--|---|--|--------------|-------------|-----------------------|------------------------------------|-----------------------|-----------------------------|------------------------------|-----------------------|
| | Non-isolated | | | | | (1) | | Volts | (2) (12) (14) (18) μAmps | (20) (21) | | | (3) (10) Volts |
| |  TO-92 |  TO-202 |  TO-251 V-Pak |  Compak |  TO-252 D-Pak | $I_{T(RMS)}$ | $I_{T(AV)}$ | | | μAmps | T_C or $T_L = 25^\circ C$ | T_C or $T_L = 100^\circ C$ | |
| See "Package Dimensions" section for variations. (11) | | | | | MAX | MIN | MAX | MAX | | | MAX | | |
| 0.8 A | | | | S2S1 | 0.8 | 0.51 | 200 | 12 | 2 | | 100 | 1.7 | |
| | | | | S4S1 | 0.8 | 0.51 | 400 | 12 | 2 | | 100 | 1.7 | |
| | | | | S6S1 | 0.8 | 0.51 | 600 | 12 | 2 | | 100 | 1.7 | |
| | | | | S2S2 | 0.8 | 0.51 | 200 | 50 | 2 | | 100 | 1.7 | |
| | | | | S4S2 | 0.8 | 0.51 | 400 | 50 | 2 | | 100 | 1.7 | |
| | | | | S6S2 | 0.8 | 0.51 | 600 | 50 | 2 | | 100 | 1.7 | |
| | | | | S2S | 0.8 | 0.51 | 200 | 200 | 2 | | 100 | 1.7 | |
| | | | | S4S | 0.8 | 0.51 | 400 | 200 | 2 | | 100 | 1.7 | |
| | | | | S6S | 0.8 | 0.51 | 600 | 200 | 2 | | 100 | 1.7 | |
| | | | | S2S3 | 0.8 | 0.51 | 200 | 500 | 2 | | 100 | 1.7 | |
| | | | | S4S3 | 0.8 | 0.51 | 400 | 500 | 2 | | 100 | 1.7 | |
| | | | | S6S3 | 0.8 | 0.51 | 600 | 500 | 2 | | 100 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 200 | 200 | 1 | 50 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 400 | 200 | 1 | 50 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 600 | 200 | 2 | 100 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 200 | 12 | 1 | 50 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 400 | 12 | 1 | 50 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 600 | 12 | 2 | 100 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 200 | 50 | 1 | 50 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 400 | 50 | 1 | 50 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 600 | 50 | 2 | 100 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 200 | 500 | 1 | 50 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 400 | 500 | 1 | 50 | 1.7 | |
| | | | | | | 0.8 | 0.51 | 600 | 500 | 2 | 100 | 1.7 | |
| 1.5 A | | | | | 1.5 | 0.95 | 200 | 200 | 1 | | 100 | 1.5 | |
| | | | | | 1.5 | 0.95 | 400 | 200 | 1 | | 100 | 1.5 | |
| | | | | | 1.5 | 0.95 | 600 | 200 | 2 | | 100 | 1.5 | |
| 4 A | | | | T106B1 | 4 | 2.5 | 200 | 200 | 2 | | 100 | 2.2 | |
| | | | | T106D1 | 4 | 2.5 | 400 | 200 | 2 | | 100 | 2.2 | |
| | | | | T106M1 | 4 | 2.5 | 600 | 200 | 2 | | 100 | 2.2 | |
| | | | | T107B1 | 4 | 2.5 | 200 | 500 | 2 | | 100 | 2.5 | |
| | | | | T107D1 | 4 | 2.5 | 400 | 500 | 2 | | 100 | 2.5 | |
| | | | | T107M1 | 4 | 2.5 | 600 | 500 | 2 | | 100 | 2.5 | |
| | | | | S2004VS1 | S2004DS1 | 4 | 2.5 | 200 | 50 | 2 | | 100 | 1.6 |
| | | | | S4004VS1 | S4004DS1 | 4 | 2.5 | 400 | 50 | 2 | | 100 | 1.6 |
| | | | | S6004VS1 | S6004DS1 | 4 | 2.5 | 600 | 50 | 2 | | 100 | 1.6 |
| | | | | S2004VS2 | S2004DS2 | 4 | 2.5 | 200 | 200 | 2 | | 100 | 1.6 |
| | | | | S4004VS2 | S4004DS2 | 4 | 2.5 | 400 | 200 | 2 | | 100 | 1.6 |
| | | | | S6004VS2 | S6004DS2 | 4 | 2.5 | 600 | 200 | 2 | | 100 | 1.6 |

See "General Notes" on page E5 - 4 and "Electrical Specifications Notes" on page E5 - 5

| V _{GT} (4) (12) (22) | | | I _H (5) (15) (16) (19) | I _{GM} (17) | V _{GRM} | P _{GM} (17) | P _{G(AV)} | I _{TSM} (6) (7) (13) | dv/dt | di/dt | t _{gt} (8) | t _q (9) | I ² t |
|--|---|--|---|-------------------------|------------------|-------------------------|--------------------|----------------------------------|------------|-----------|------------------------|-----------------------|------------------------|
| Volts | | | mAmps | Amps | Volts | Watts | Watts | Amps | Volts/μSec | Amps/μSec | μSec | μSec | Amps ² /Sec |
| T _C or T _L = -40 °C | T _C or T _L = 25 °C | T _C or T _L = 110 °C | MAX | | MIN | | 60/50 Hz | MIN | | | TYP (23) | TYP | MAX |
| 1.2 | 0.8 | 0.2 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 20 | 50 | 2 | 60 | 1.6 |
| 1.2 | 0.8 | 0.2 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 20 | 50 | 2 | 60 | 1.6 |
| 1.2 | 0.8 | 0.2 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 10 | 50 | 2 | 60 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 25 | 50 | 3 | 60 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 25 | 50 | 3 | 60 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 10 | 50 | 3 | 60 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 30 | 50 | 4 | 50 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 30 | 50 | 4 | 50 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 15 | 50 | 4 | 50 | 1.6 |
| 1.2 | 0.8 | 0.25 | 8 | 1 | 5 | 1 | 0.1 | 20/16 | 40 | 50 | 5 | 45 | 1.6 |
| 1.2 | 0.8 | 0.25 | 8 | 1 | 5 | 1 | 0.1 | 20/16 | 40 | 50 | 5 | 45 | 1.6 |
| 1.2 | 0.8 | 0.25 | 8 | 1 | 5 | 1 | 0.1 | 20/16 | 20 | 50 | 5 | 45 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 30 | 50 | 3.5 | 50 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 30 | 50 | 3.5 | 50 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 15 | 50 | 3.5 | 50 | 1.6 |
| 1.2 | 0.8 | 0.2 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 20 | 50 | 2 | 60 | 1.6 |
| 1.2 | 0.8 | 0.2 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 20 | 50 | 2 | 60 | 1.6 |
| 1.2 | 0.8 | 0.2 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 10 | 50 | 2 | 60 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 25 | 50 | 3 | 60 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 25 | 50 | 3 | 60 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 10 | 50 | 3 | 60 | 1.6 |
| 1.2 | 0.8 | 0.25 | 8 | 1 | 5 | 1 | 0.1 | 20/16 | 40 | 50 | 5 | 45 | 1.6 |
| 1.2 | 0.8 | 0.25 | 8 | 1 | 5 | 1 | 0.1 | 20/16 | 40 | 50 | 5 | 45 | 1.6 |
| 1.2 | 0.8 | 0.25 | 8 | 1 | 5 | 1 | 0.1 | 20/16 | 20 | 50 | 5 | 45 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 5 | 1 | 0.1 | 20/16 | 25 | 50 | 2.2 | 60 | 1.6 |
| 1.2 | 0.8 | 0.25 | 5 | 1 | 6 | 1 | 0.1 | 20/16 | 25 | 50 | 2.2 | 60 | 1.6 |
| 1 | 0.8 | 0.25 | 5 | 1 | 6 | 1 | 0.1 | 20/16 | 60 | 50 | 3.5 | 50 | 1.6 |
| 1 | 0.8 | 0.25 | 5 | 1 | 6 | 1 | 0.1 | 20/16 | 40 | 50 | 3.5 | 50 | 1.6 |
| 1 | 0.8 | 0.25 | 5 | 1 | 6 | 1 | 0.1 | 20/16 | 30 | 50 | 3.5 | 50 | 1.6 |
| 1 | 0.8 | 0.2 | 5 | 1 | 6 | 1 | 0.1 | 20/16 | 8 | 50 | 4 | 50 | 1.6 |
| 1 | 0.8 | 0.2 | 5 | 1 | 6 | 1 | 0.1 | 20/16 | 8 | 50 | 4 | 50 | 1.6 |
| 1 | 0.8 | 0.2 | 5 | 1 | 6 | 1 | 0.1 | 20/16 | 8 | 50 | 4 | 50 | 1.6 |
| 1 | 0.8 | 0.2 | 6 | 1 | 6 | 1 | 0.1 | 20/16 | 8 | 50 | 5 | 45 | 1.6 |
| 1 | 0.8 | 0.2 | 6 | 1 | 6 | 1 | 0.1 | 20/16 | 8 | 50 | 5 | 45 | 1.6 |
| 1 | 0.8 | 0.2 | 6 | 1 | 6 | 1 | 0.1 | 20/16 | 8 | 50 | 5 | 45 | 1.6 |
| 1 | 0.8 | 0.2 | 4 | 1 | 6 | 1 | 0.1 | 30/25 | 8 | 50 | 3 | 50 | 3.7 |
| 1 | 0.8 | 0.2 | 4 | 1 | 6 | 1 | 0.1 | 30/25 | 8 | 50 | 3 | 50 | 3.7 |
| 1 | 0.8 | 0.2 | 4 | 1 | 6 | 1 | 0.1 | 30/25 | 8 | 50 | 3 | 50 | 3.7 |
| 1 | 0.8 | 0.2 | 6 | 1 | 6 | 1 | 0.1 | 30/25 | 8 | 50 | 4 | 50 | 3.7 |
| 1 | 0.8 | 0.2 | 6 | 1 | 6 | 1 | 0.1 | 30/25 | 8 | 50 | 4 | 50 | 3.7 |
| 1 | 0.8 | 0.2 | 6 | 1 | 6 | 1 | 0.1 | 30/25 | 8 | 50 | 4 | 50 | 3.7 |

See "General Notes" on page E5 - 4 and "Electrical Specifications Notes" on page E5 - 5

