

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase , half wave ,60Hz, resistive or inductive load. For capacitive load , derate current by 20%.

| PARAMETER | SYMBOL | S3A | S3B | S3D | S3G | S3J | S3K | S3M | UNITS |
|---|--------------------------------------|-------------|-----|-----|-----|-----|-----|------|--------|
| Maximum Recurrent Peak Reverse Voltage | V _{rrm} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | v |
| Maximum RMS Voltage | V _{rms} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | v |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current at T _L = 75°C | I _{F(AV)} | 3 | | | | | | | А |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 200 | | | | | | А | |
| Maximum Forward Voltage at 3A | V _F | 1.2 | | | | | | V | |
| Maximum DC Reverse Current at Rated DC Blocking $T_j=25^{\circ}C$ Voltage $T_j=125^{\circ}C$ | I _R | 1 250 | | | | | | | μA |
| Maximum Junction Capacitance (Note 1) | C | 53 | | | | | | рF | |
| Typical Junction Resistance (Note 2) | R _{ejl} R _{eja} | 13 47 | | | | | | | °C / W |
| Operating Junction and Storage Temperature Range | T_{J},T_{stg} | -55 to +150 | | | | | | | °C |

NOTES :

1.Measured at 1 MHZ and applied $V_{\mathsf{R}}\text{=}4$ volts.

2.8mm²(0.013mm thick)land areas.



RATING AND CHARACTERISTIC CURVES

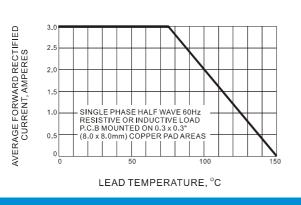


Fig.1 FORWARD CURRENT DERATING CURVE

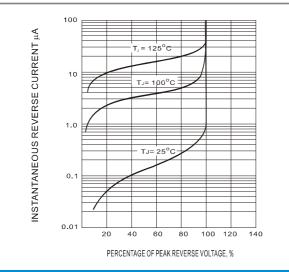
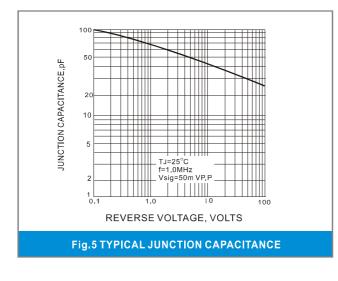
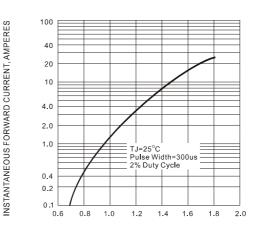


Fig.3-TYPICAL REVERSE CHARACTERISTIC





INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

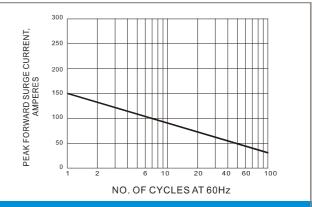


Fig.4 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT

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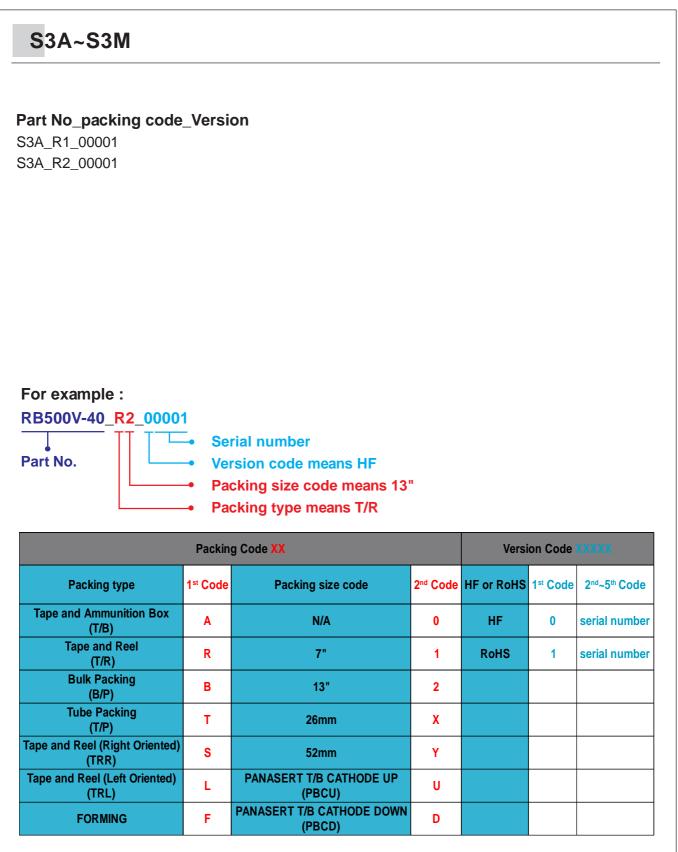
MOUNTING PAD LAYOUT SMC/DO-214AB Unit : inch(mm) 0.390 (9.90) 0.151 0.119 (3.84) (3.03) 0.150 (3.82) ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5K per 7" plastic Reel









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