

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°C Voltage T_{j} =125°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 $V_{\text{R}}\text{=}4$ volts.

2.8mm²(0.013mm thick)land areas.



RATING AND CHARACTERISTIC CURVES

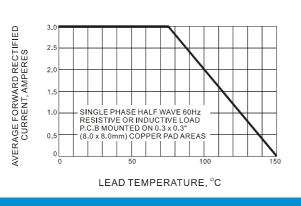


Fig.1 FORWARD CURRENT DERATING CURVE

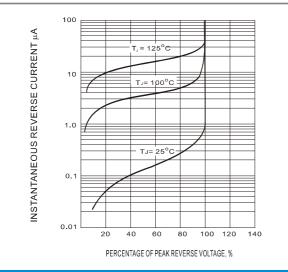
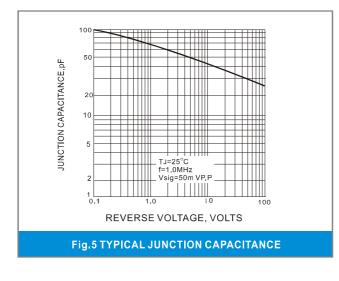
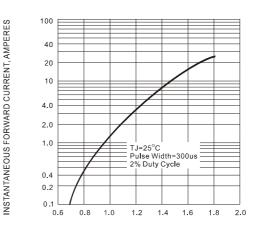


Fig.3-TYPICAL REVERSE CHARACTERISTIC





INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

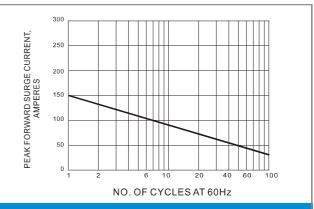
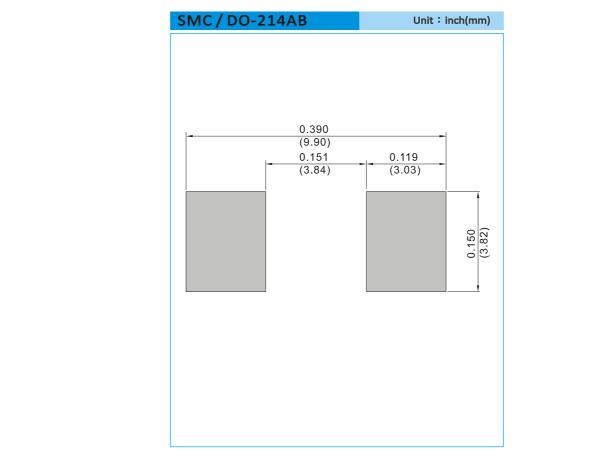


Fig.4 MAXIMUM NON REPETITIVE PEAK SURGE CURRENT

March 26,2018-REV.09



MOUNTING PAD LAYOUT



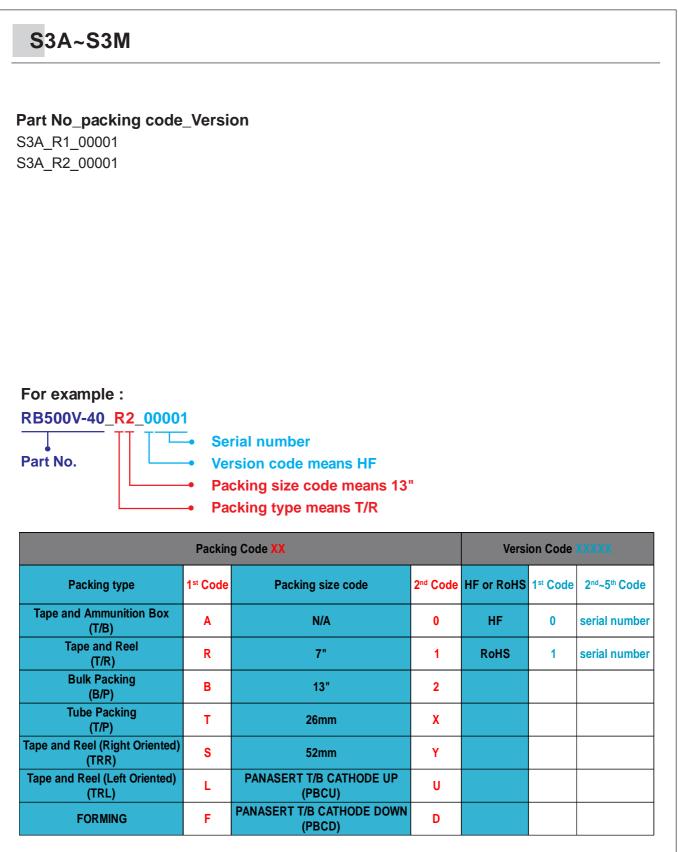
ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel









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