

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Current at T _L =120°C	I _{F(AV)}	1							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	30						А	
Maximum Forward Voltage at 1A	V _F	0.95 1.25 1.7					V		
Maximum DC Reverse Current at Rated DC Blocking T_=25°C Voltage T_j=100°C	I _R	1 150						μA	
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35						ns	
Typical Junction Capacitance (Note 2)	C	7						рF	
Typica Thermal Resistance (Note 3)	R _{ejl}	35						°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to +150							°C

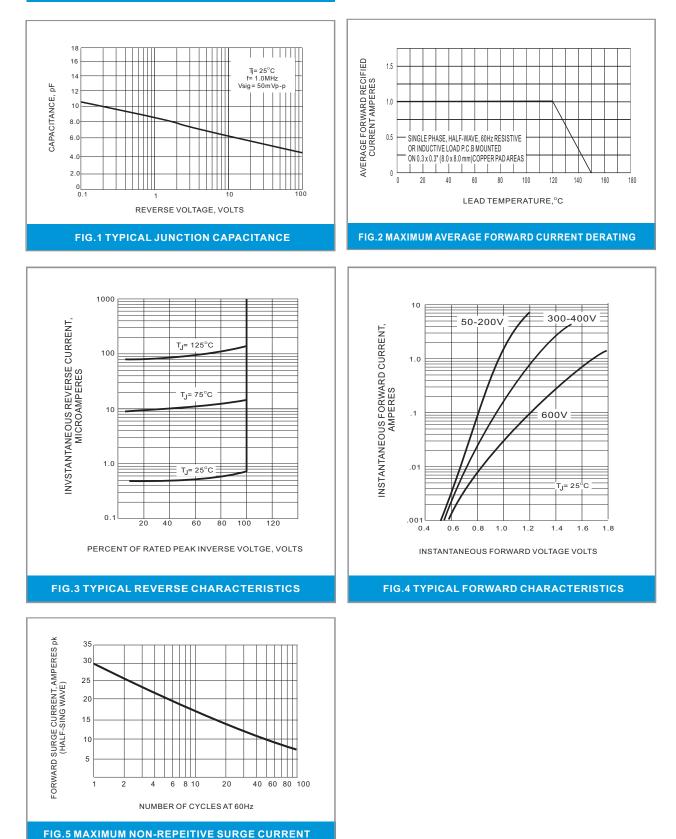
NOTES:

- 1. Reverse Recovery Tset Conditions: I_F=0.5A, I_R=1.0A, Irr=0.25A
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0 volt

 $3.8.0 \mbox{mm}^2 (\ 0.013 \mbox{mm}$ thick) land areas.

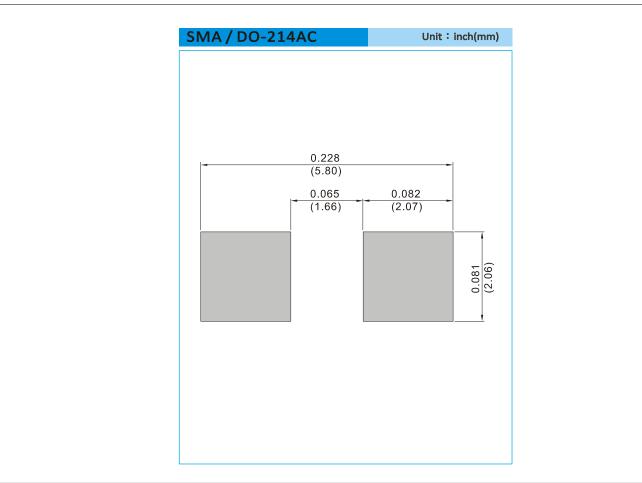


RATING AND CHARACTERISTIC CURVES





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel



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