

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	US1A	US1B	US1D	US1G	US1J	US1K	US1M	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V	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 Current	l _{F(AV)}	1						А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I FSM	30						A	
Maximum Forward Voltage at 1A	V _F	1 1.3 1.7					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage $$T_{\rm J}$=25^{\circ}C$$T_{\rm J}$=125^{\circ}C$$$	I _R	1 100						μA	
Typical Junction Capacitance (Note 2)	C」	17						рF	
Typical Thermal Resistance (Note 3)	R _{ejl}	30						°C / W	
Typical Thermal Resistance (Note 4)	R _{ejc}	28							°C / W
Maximum Reverse Recovery Time (Note 1)	T	50 100					ns		
Operating Junction and Storage Temperature Range	T_,T_ _{stg}	-55 to +150							٥C

NOTES:1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=-1A, I_{rr}=-0.25A

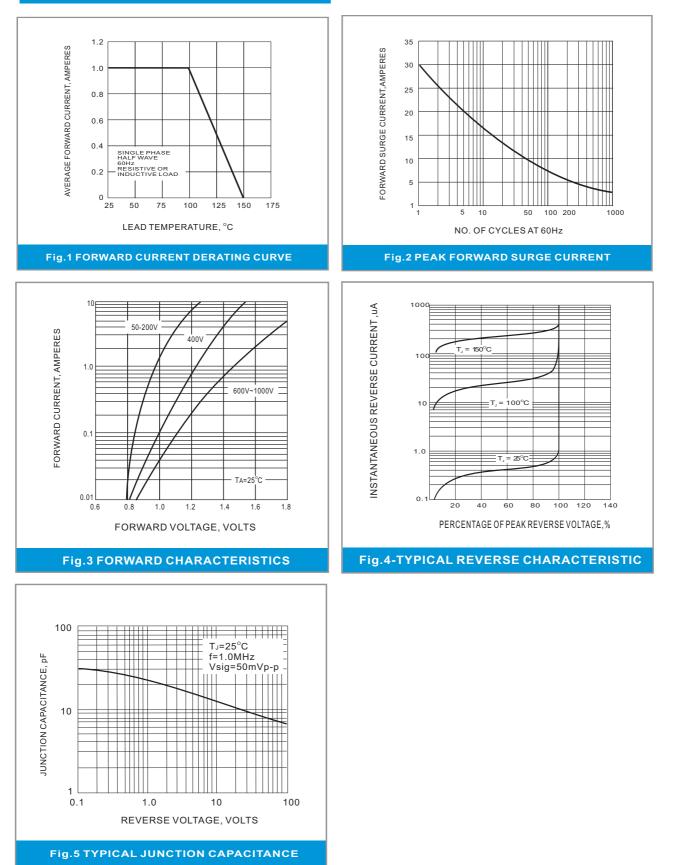
2. Measured at 1 MHz and applied V_r = 4volts.

3. 8mm² (0.013mm thick) land areas.

4. Mounted on 100cm² FR4 PCB.

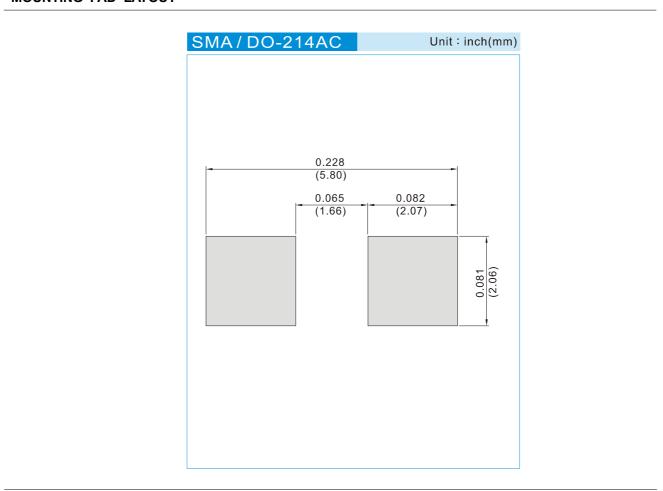


RATING AND CHARACTERISTIC CURVES





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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