

#### 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%.

			1		-
PARAMETER	SYMBOL	ES1D	ES1G	ES1J	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	200	400	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	140	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	400	600	V
Maximum Average Forward Current at T =120°C	$I_{F(AV)}$	1			A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	30			A
Maximum Forward Voltage at 1A	V <sub>F</sub>	0.95	1.25	1.7	v
Maximum DC Reverse Current at Rated DC Blocking T =25°C Voltage T =100°C		1 150			μA
Maximum Reverse Recovery Time (Note 1)	t <sub>rr</sub>	35			ns
Typical Junction Capacitance (Note 2)	C	8			pF
Typica Thermal Resistance (Note 3)	$R_{_{\theta JL}}$	35			°C / W
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150			٥C

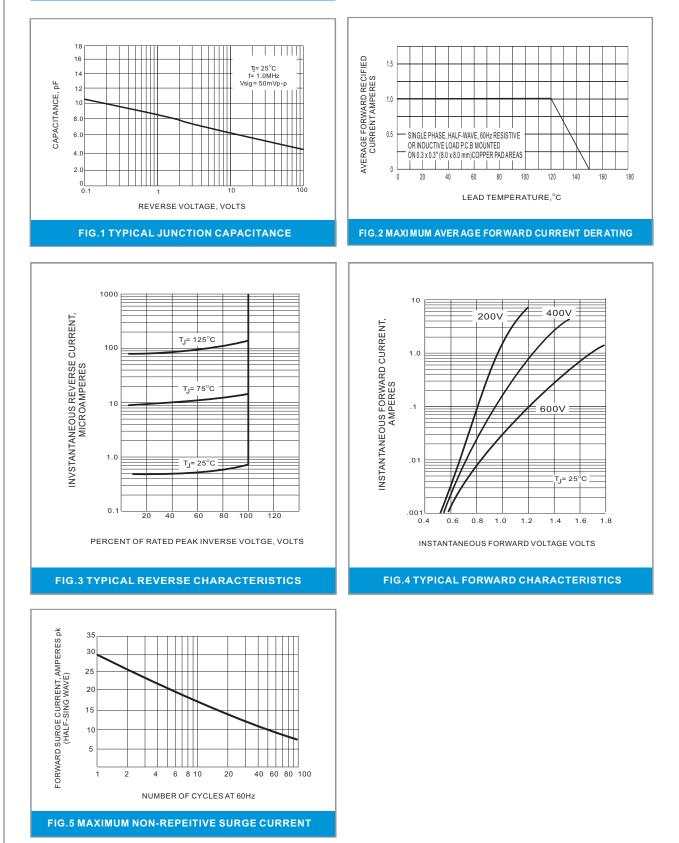
#### NOTES:

- 1. Reverse Recovery Tset Conditions:  $I_F$ =0.5A,  $I_R$ =1.0A,  $I_T$ =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.

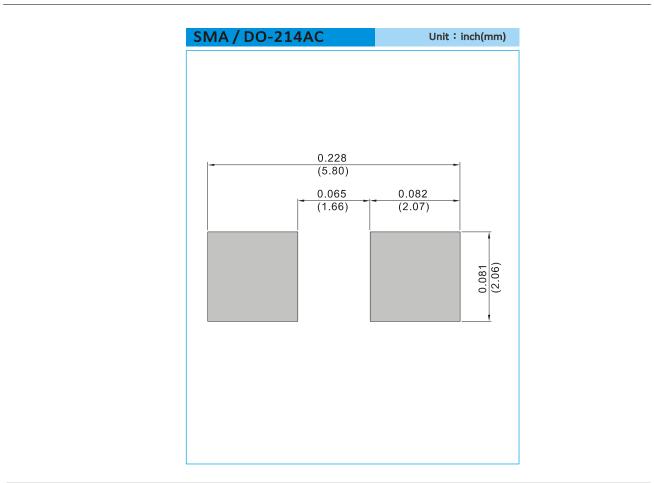


## RATING AND CHARACTERISTIC CURVES





#### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





## Part No.\_packing code\_Version

ES1D\_R1\_00101 ES1D\_R2\_00101 ES1G\_R1\_00101 ES1G\_R2\_00101 ES1J\_R1\_00101 ES1J\_R2\_00101

## For example :

## RB500V-40\_R2\_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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