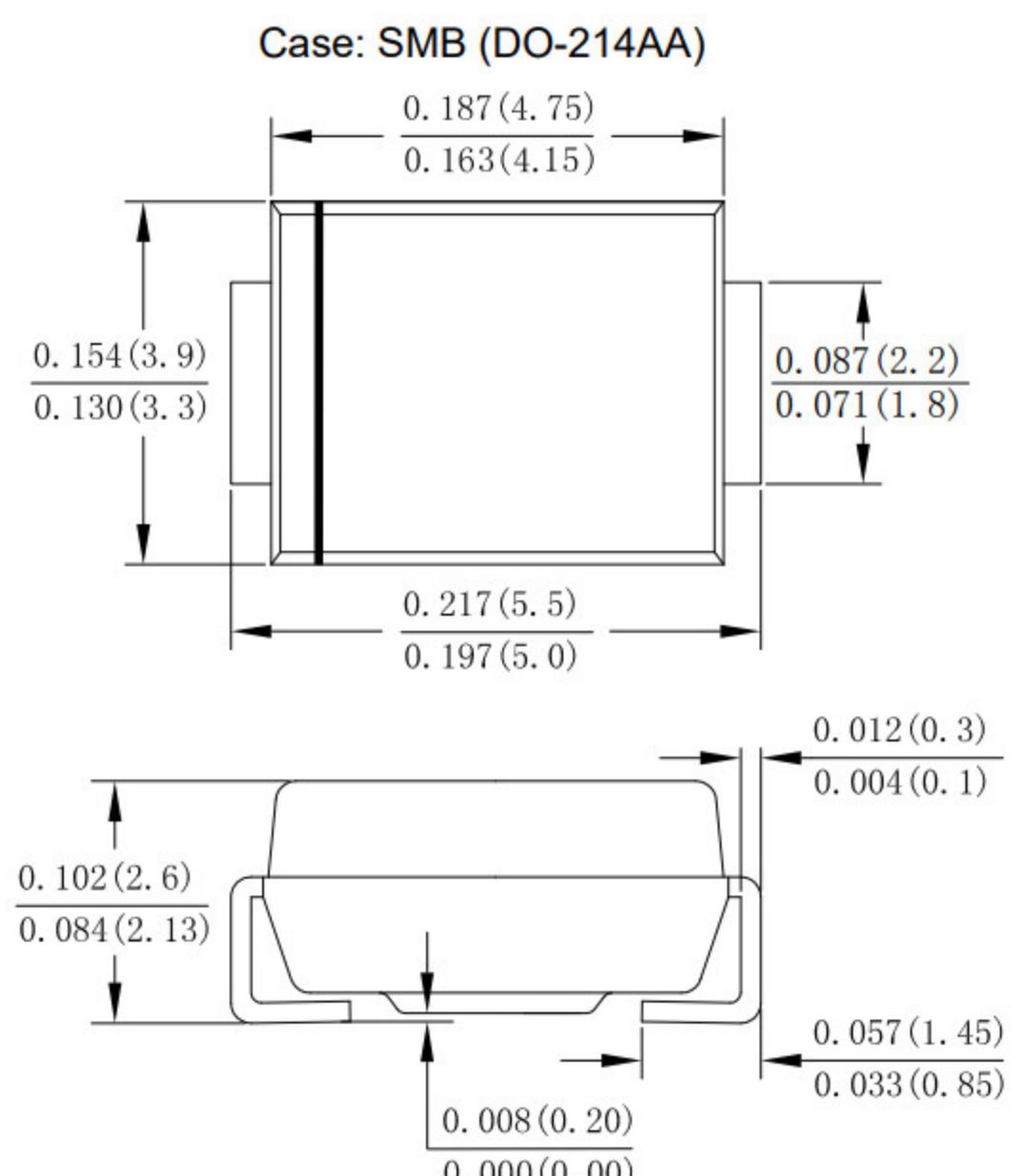


Surface Mount Fast Recovery Rectifiers**Reverse Voltage - 50 to 1000 V****Forward Current - 5A****FEATURES**

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity:Cathode Band or Cathode Notch
- Mounting Position: Any
- Marking: Type Number



Dimensions in inches and (millimeters)

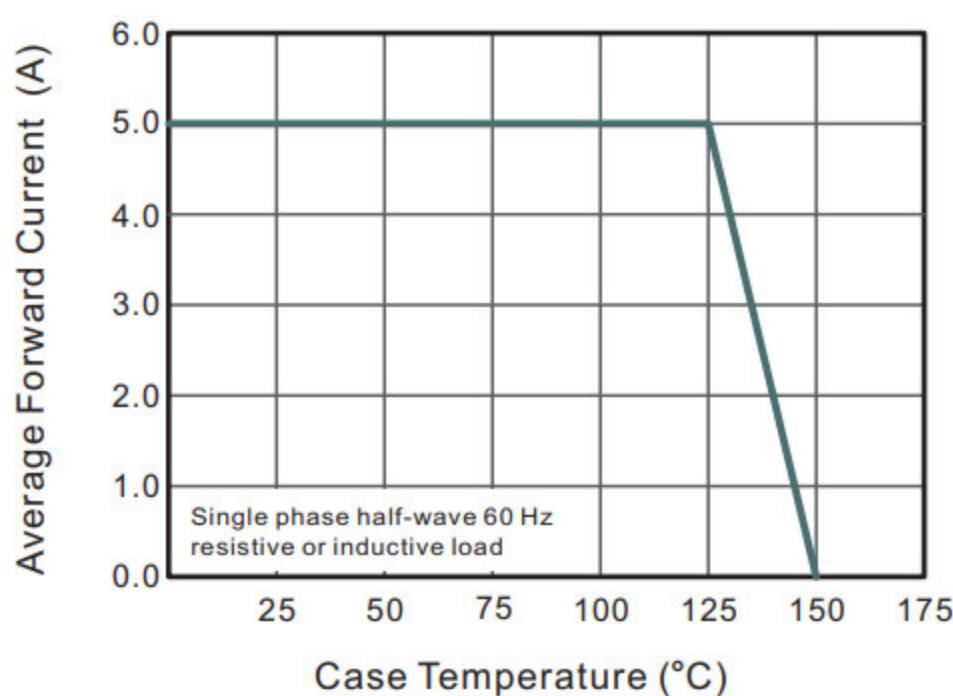
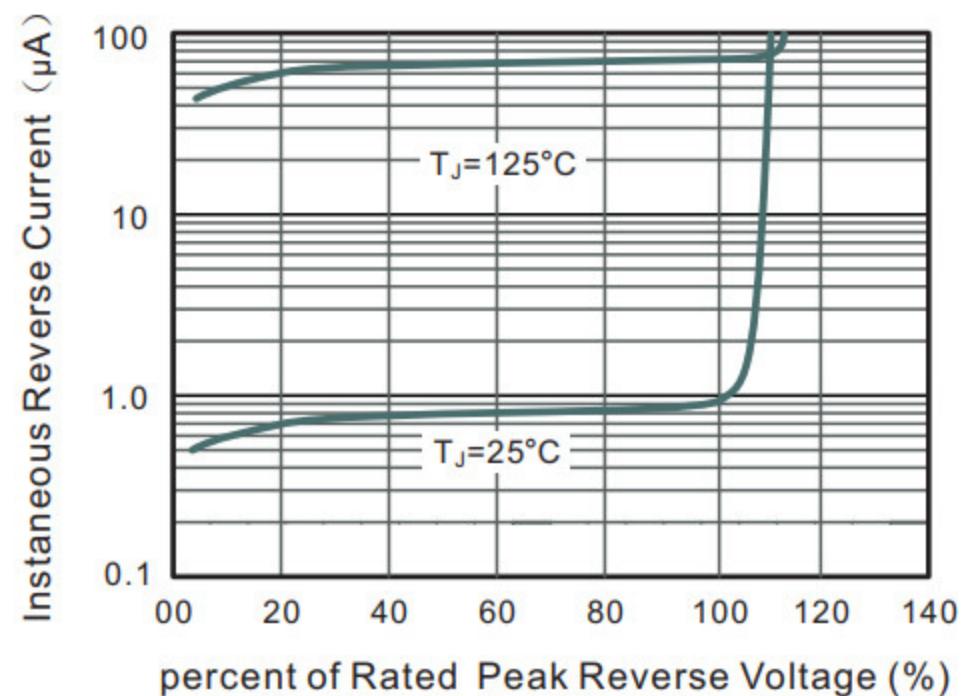
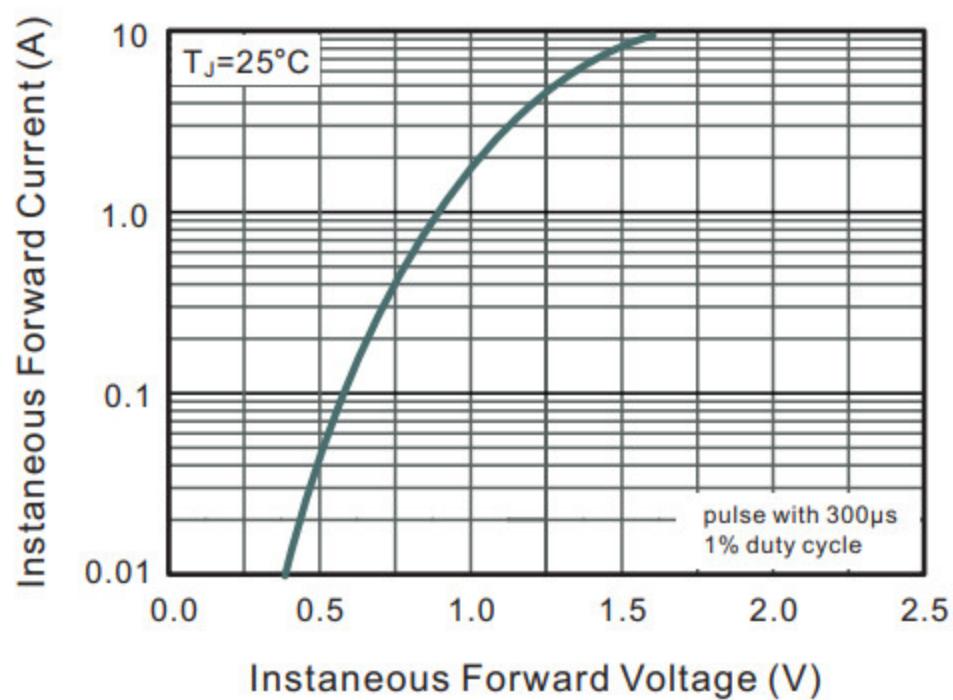
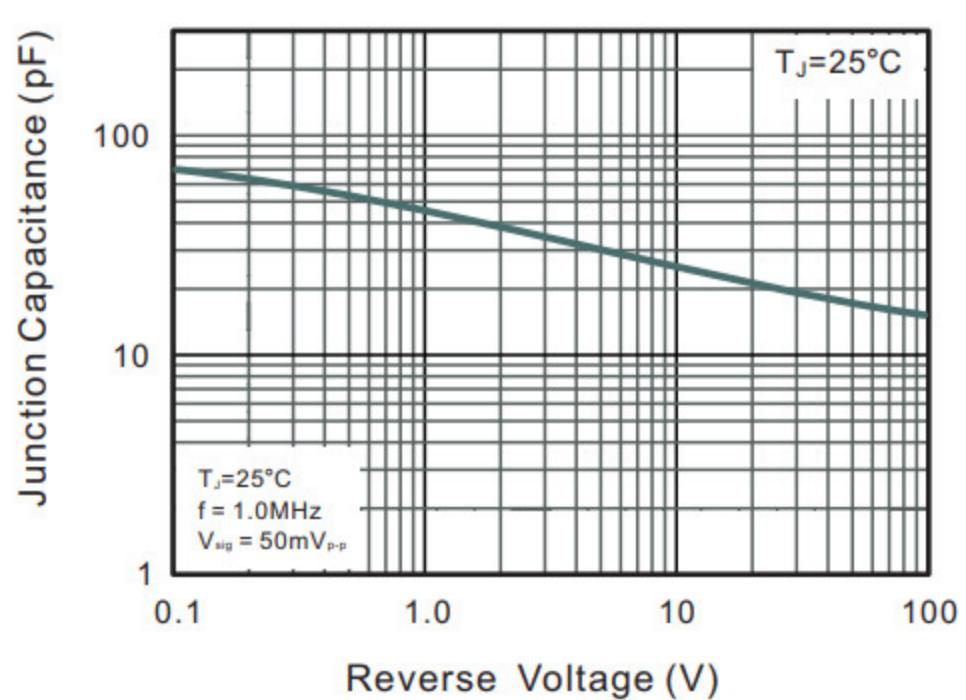
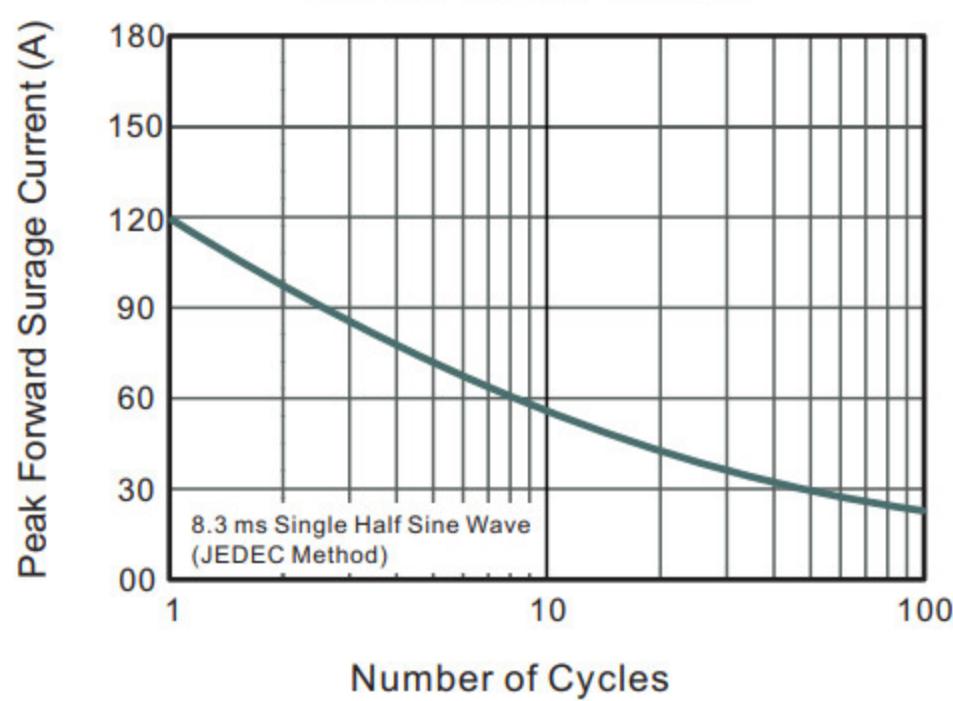
Absolute Maximum Ratings and Characteristics

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	Symbols	RS5A	RS5B	RS5D	RS5G	RS5J	RS5K	RS5M	Units
Maximum Repetitive 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	I _{F(AV)}					5			A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}					120			A
Maximum Forward Voltage at 5 A	V _F				1.3				V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R				10	150			µA
Typical Junction Capacitance at V _R =4V, f=1MHz	C _j				45				pF
Maximum Reverse Recovery Time ⁽¹⁾	t _{rr}			150		250	500		ns
Typical Thermal Resistance ⁽²⁾	R _{θJA} R _{θJC}				48	16			°C/W
Operating and Storage Temperature Range	T _j , T _{stg}				-55 ~ +150				°C

(1) Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A.

(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Fig.1 Maximum Average Forward Current Rating**Fig.2 Typical Reverse Characteristics****Fig.3 Typical Instantaneous Forward Characteristics****Fig.4 Typical Junction Capacitance****Fig.5 Maximum Non-Repetitive Peak Forward Surge Current****The recommended mounting pad size**