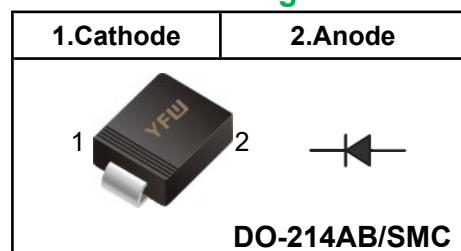


Surface Mount Fast Recovery Rectifiers
Reverse Voltage - 50 to 1000 V
Forward Current - 5 A
FEATURES

- ◆ 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: DO-214AB/SMC
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 0.22g / 0.0077oz


Pinning

Marking Code

RS5A	RS5A
RS5B	RS5B
RS5D	RS5D
RS5G	RS5G
RS5J	RS5J
RS5K	RS5K
RS5M	RS5M

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 current derate 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 at $T_c = 125^\circ C$	$I_{F(AV)}$	5							A				
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	120							A				
Maximum Instantaneous Forward Voltage at 5 A	V_F	1.3							V				
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Blocking Voltage $T_a=125^\circ C$	I_R	5 100							μA				
Typical Junction Capacitance at $V_R=4V, f=1MHz$	C_J	50							pF				
Maximum Reverse Recovery Time ⁽¹⁾	Tr_{rr}	150		250		500			nS				
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}/ R_{\theta JC}$	35/13							°C/W				
Operating and Storage Temperature Range	T_J, T_{stg}	-55 ~ +150							°C				

 (1) Measured with $I_F=0.5A, I_R=1A, I_h=0.25A$

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

Fig.1 Forward Current Derating Curve

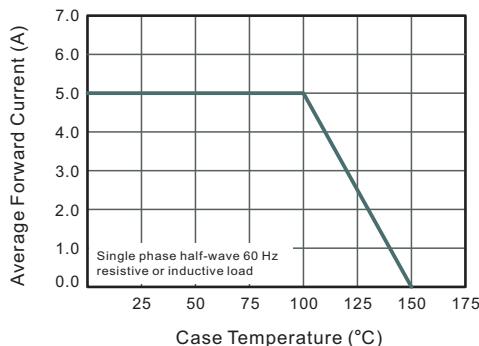


Fig.2 Typical Reverse Characteristics

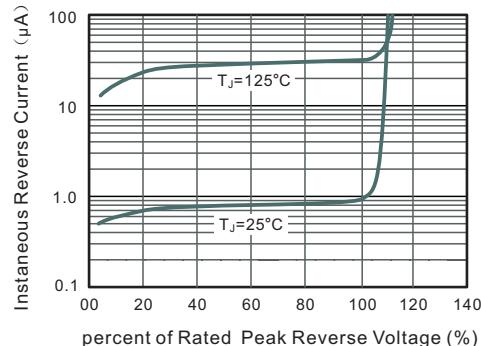


Fig.3 Typical Instantaneous Forward Characteristics

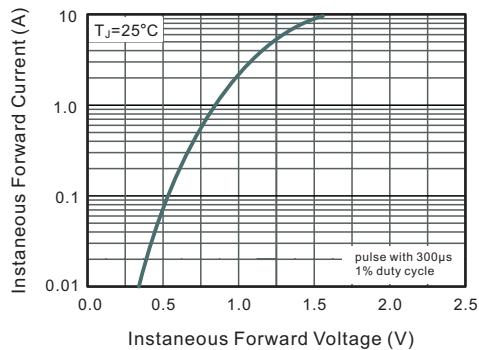


Fig.4 Typical Junction Capacitance

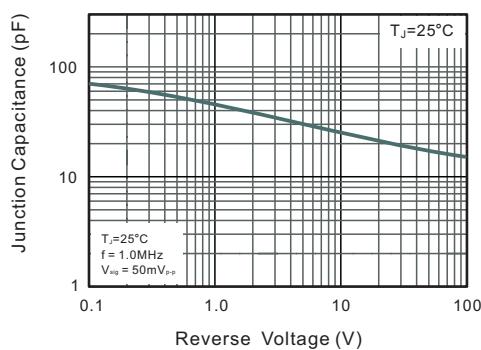
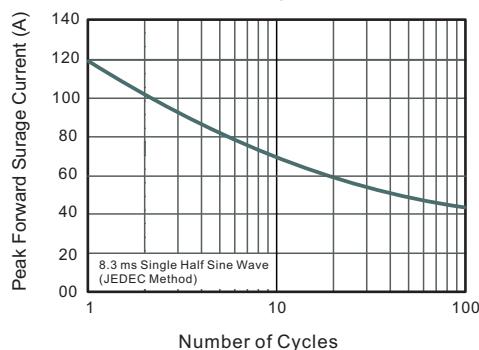
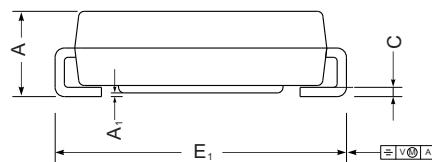
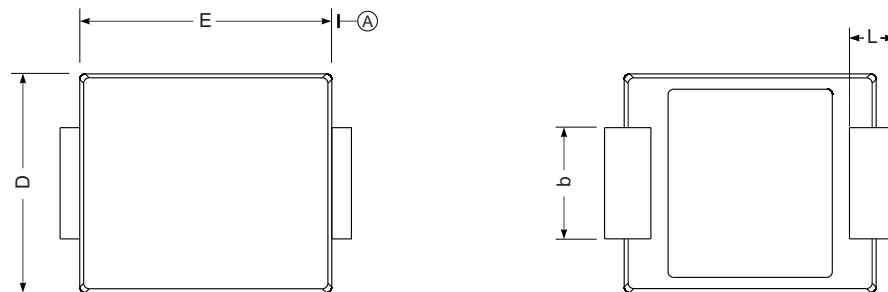
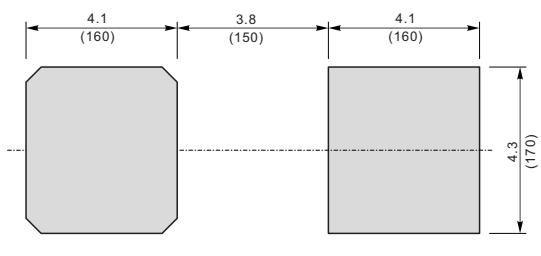


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Package Outline
DO-214AB SMC
Plastic surface mounted package; 2leads


UNIT		A	E	D	E ₁	A ₁	C	L	b
mm	max	2.62	7.0	6.2	8.0	0.21	0.31	1.6	3.25
	min	2.00	6.5	5.6	7.6	0.05	0.15	0.9	2.75
mil	max	103	276	244	315	8.3	12	63	128
	min	79	256	220	299	2.0	5.9	35	108

The recommended mounting pad size

Unit : $\frac{\text{mm}}{(\text{mil})}$
Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-214AB SMC	Tape/Reel,13"reel	3000	EIA-481-1

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