

Reverse Voltage: 50 to 1000 V
Forward Current: 3 A

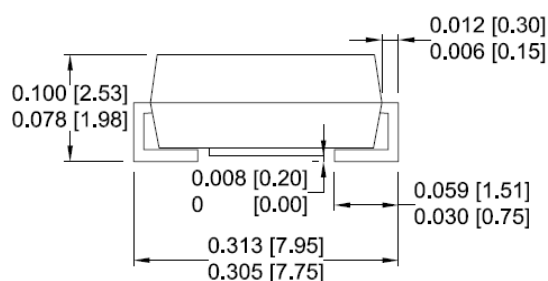
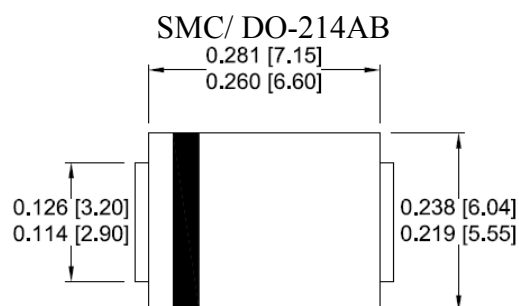
Surface Mount
Fast Recovery Rectifiers

Features

- Glass passivated chip
- Low forward voltage
- High current capability
- High reliability
- High surge current capability
- RoHS compliant

Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any



Dimensions: inch[mm]

Maximum Ratings And Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	Unit
Maximum repetitive peak reverse voltage @ $I_T = 5\mu\text{A}$	V_B	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_R	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 @ $T_A = 25^\circ\text{C}$	I_F	3.0							A
Maximum instantaneous forward voltage at specified current	V_F	1.3							V
Maximum DC reverse current	I_R	5.0							μA
Maximum reverse recovery time ⁽¹⁾	T_{rr}	150				250	500		ns
Oprating and storage temperature range	T_J, T_{STG}	-55 ~ 150							$^\circ\text{C}$

Note:

(1) Reverse recovery test conditions: $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A}$ (RG1 circuit)

Ratings and Characteristics Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

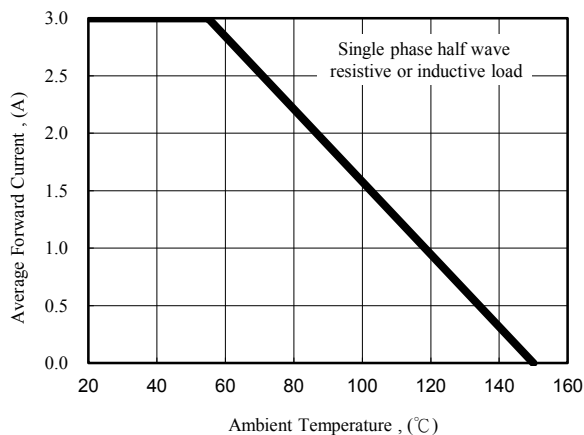


Fig. 1 - Forward Current Derating Curve

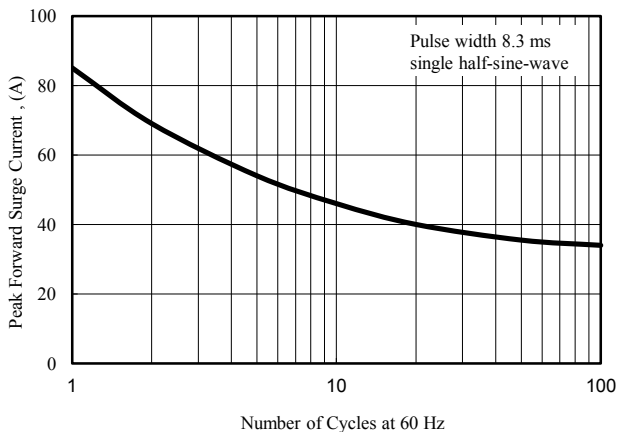


Fig. 2 - Peak Forward Surge Current

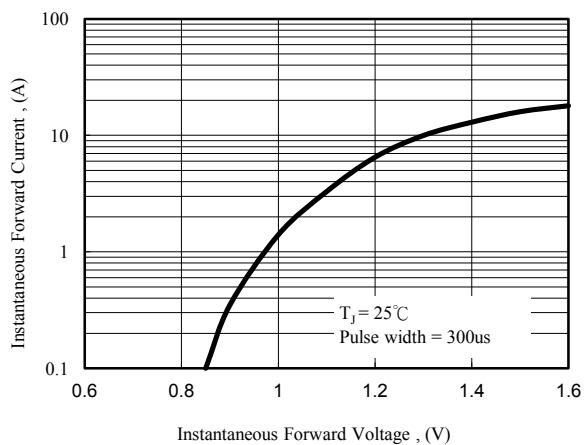


Fig. 3 - Typical Forward Characteristics

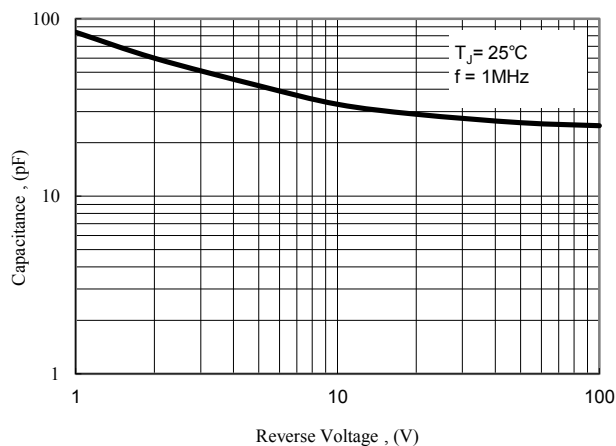


Fig. 4 - Typical Junction Capacitance