

Reverse Voltage: 50 to 1000 V
Forward Current: 1 A

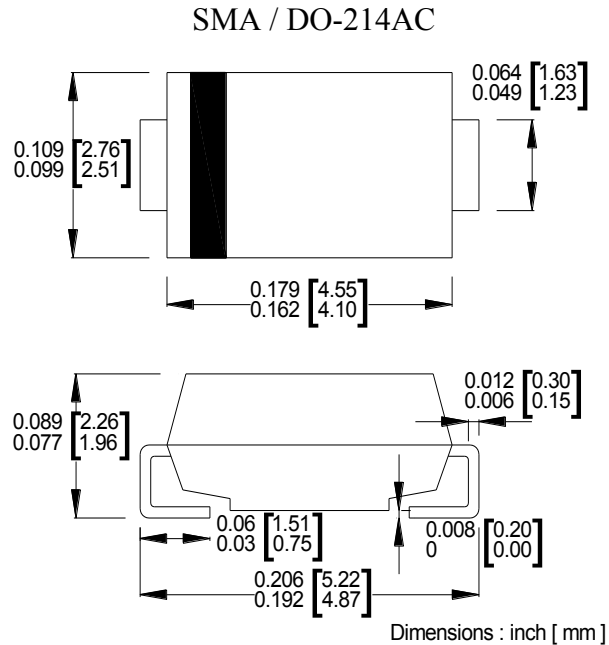
Surface Mount
Fast Recovery Rectifiers

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



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit
Maximum repetitive peak reverse voltage @ I _T = 5μA	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°C	I _F	1.0							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
Operating and storage temperature range	T _J , T _{STG}	-55 ~ 150							°C

Note:

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

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

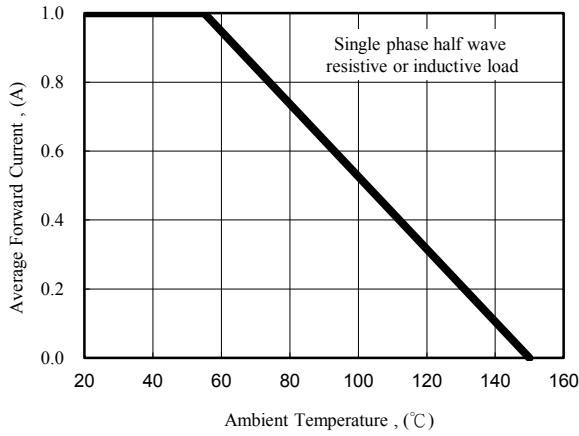


Fig. 1 - Forward Current Derating Curve

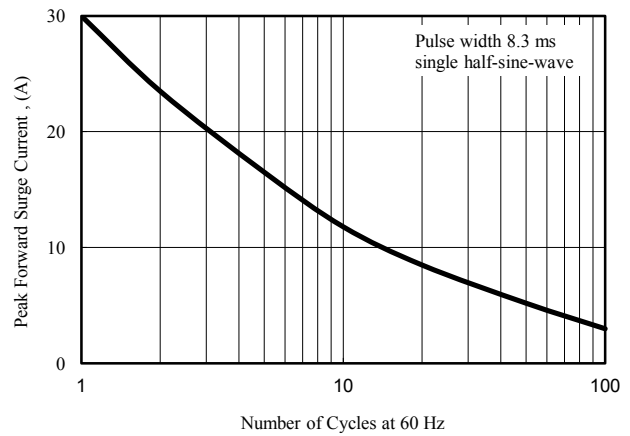


Fig. 2 - Peak Forward Surge Current

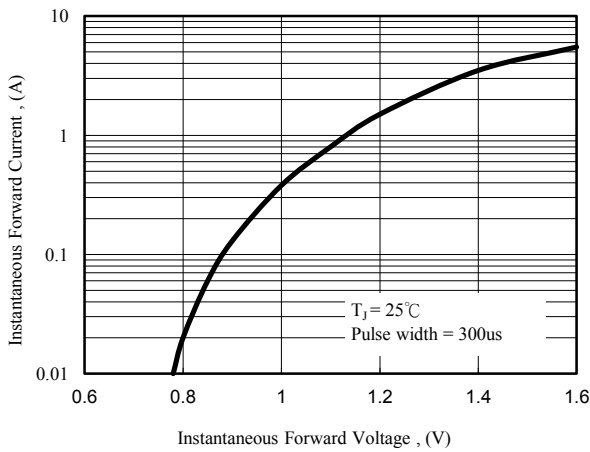


Fig. 3 - Typical Forward Characteristics

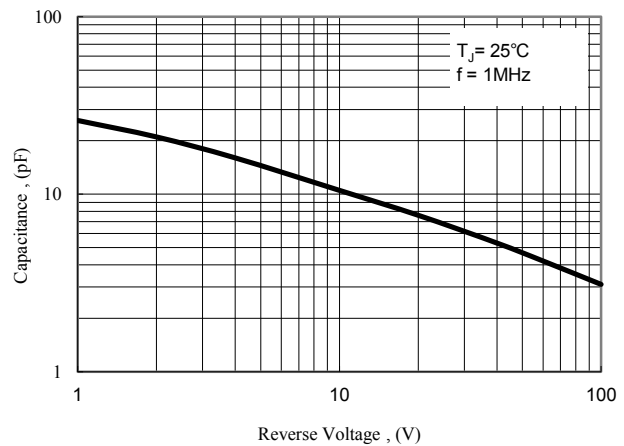


Fig. 4 - Typical Junction Capacitance