

Reverse Voltage: 100 to 600 V
Forward Current: 1 A

Surface Mount
Super Fast Rectifiers

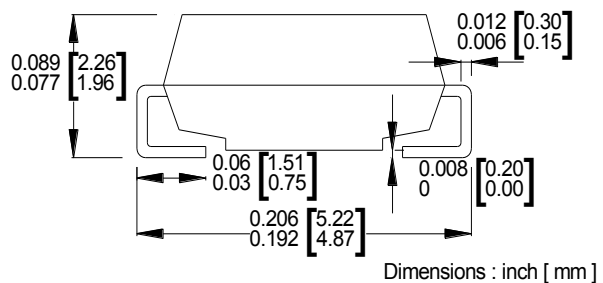
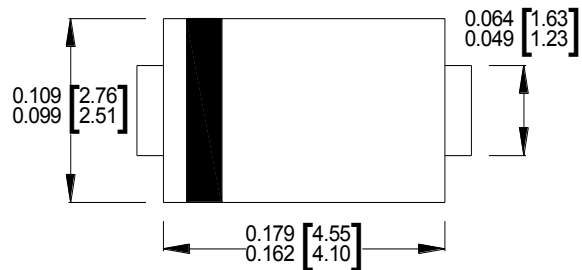
Features

- Glass passivated chip
- Low forward voltage
- High current capability
- High reliability
- High surge current capability
- High speed switching
- 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

SMA / DO-214AC



Dimensions : inch [mm]

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

Parameter	Symbol	ES1B	ES1D	ES1G	ES1J	Unit
Maximum repetitive peak reverse voltage @ I _F = 5μA	V _B	100	200	400	600	V
Maximum RMS voltage	V _R	70	140	280	420	V
Maximum DC blocking voltage	V _{DC}	100	200	400	600	V
Maximum average forward rectified current @T _A = 25°C	I _F	1.0				A
Maximum instantaneous forward voltage at specified current	V _F	0.95		1.25	1.5	V
Maximum DC reverse current	I _R	5.0				μA
Maximum reverse recovery	T _{rr}	35			50	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)

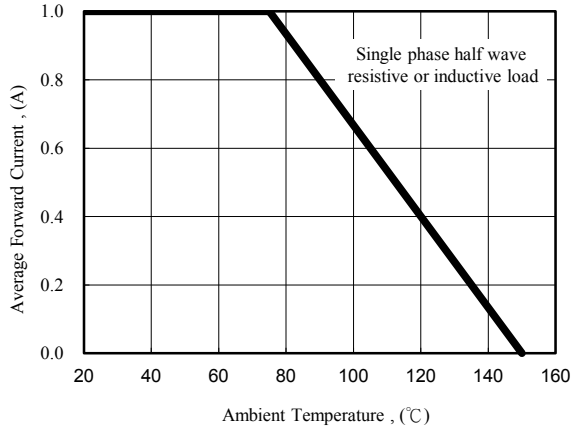


Fig. 1 - Forward Current Derating Curve

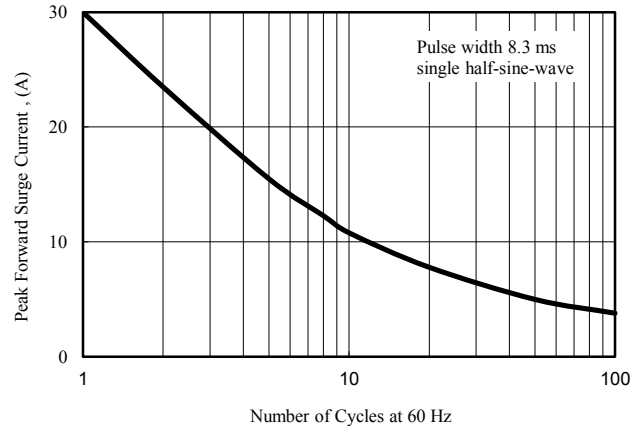


Fig. 2 - Peak Forward Surge Current

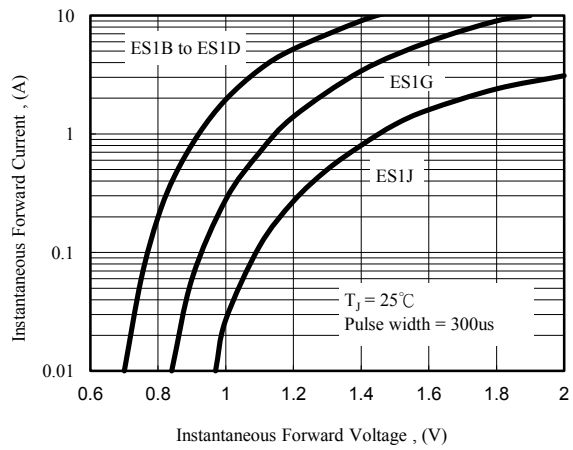


Fig. 3 - Typical Forward Characteristics

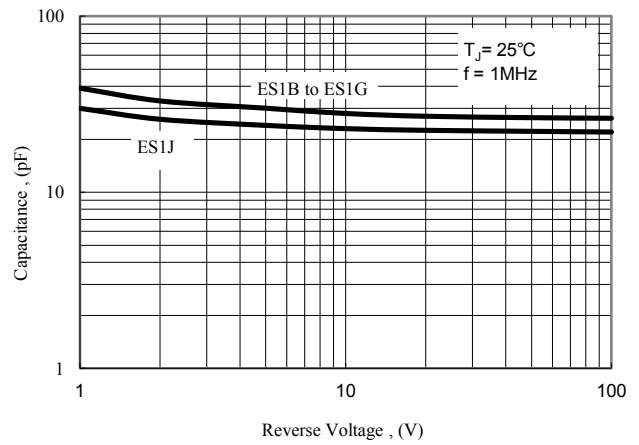


Fig. 4 - Typical Junction Capacitance