Reverse Voltage: 100 to 600 V
Forward Current: 3 A

Surface Mount
Super Fast Rectifiers

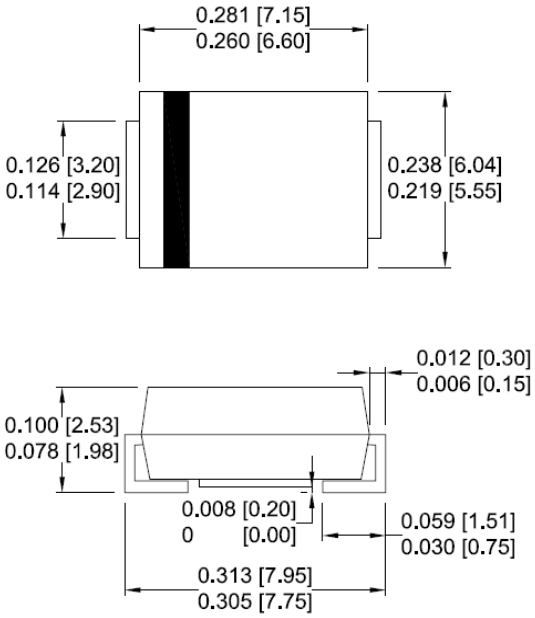
Features

- 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

SMC/ DO-214AB



Dimensions: inch[mm]

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

Parameter	Symbol	ES3B	ES3D	ES3G	ES3J	Unit
Maximum repetitive peak reverse voltage @ I_T = 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℃	I_F	3.0				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 time(1)	Trr	35			50	ns
Oprating and storage temperature range	T_J, T_{STG}	-55 ~ 150				℃

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℃ unless otherwise noted)

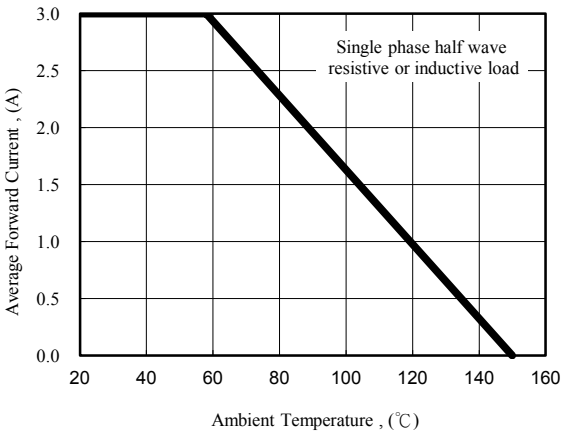


Fig. 1 - Forward Current Derating Curve

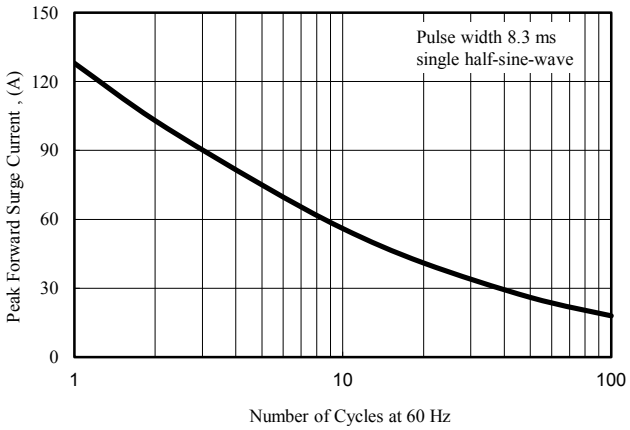


Fig. 2 - Peak Forward Surge Current

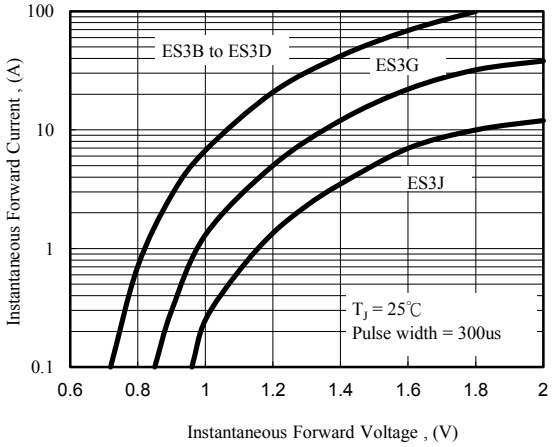


Fig. 3 - Typical Forward Characteristics

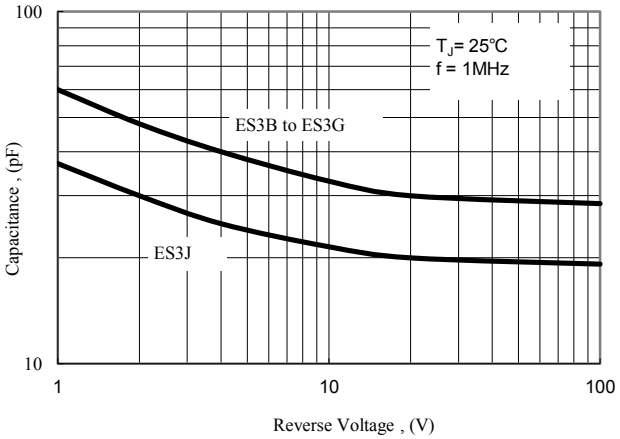


Fig.4 - Typical Junction Capacitance