

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

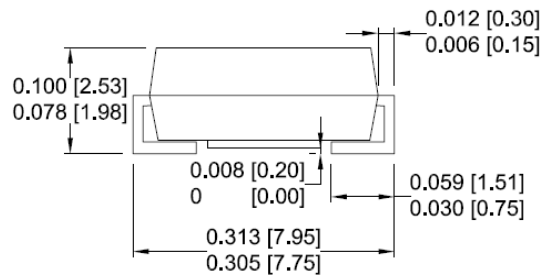
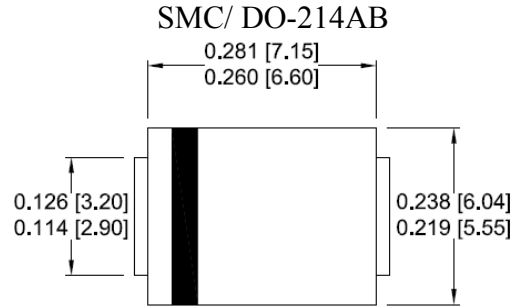
Surface Mount
High Efficiency Rectifiers

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



Dimensions: inch[mm]

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

Parameter	Symbol	US3A	US3B	US3D	US3F	US3G	US3J	US3K	US3M	Unit
Maximum repetitive peak reverse voltage @ I _T = 5μA	V _B	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V _R	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current @T _A = 25°C	I _F	3.0								A
Maximum instantaneous forward voltage at specified current	V _F	1.0				1.0	1.7			V
Maximum DC reverse current	I _R	5.0								μA
Maximum reverse recovery time ⁽¹⁾	T _{rr}	50					75			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)

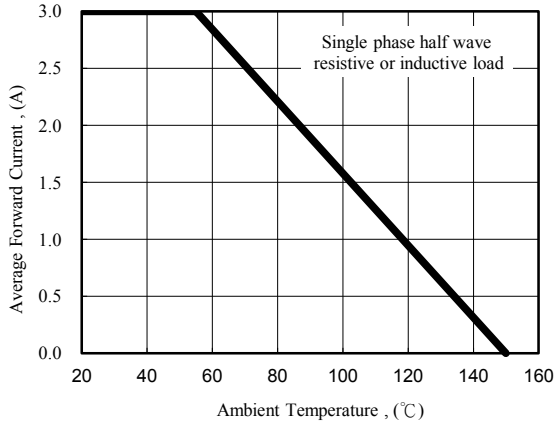


Fig. 1 - Forward Current Derating Curve

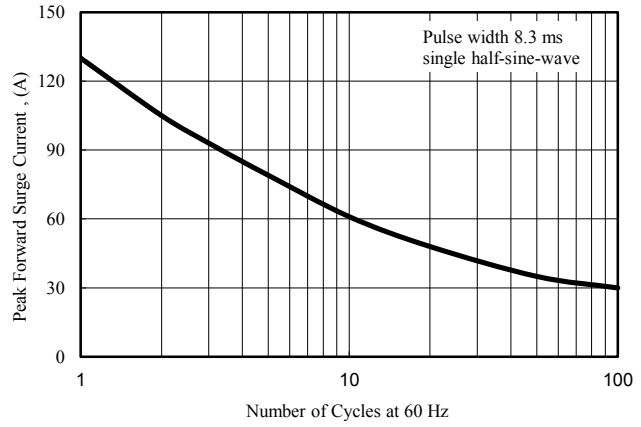


Fig. 2 - Peak Forward Surge Current

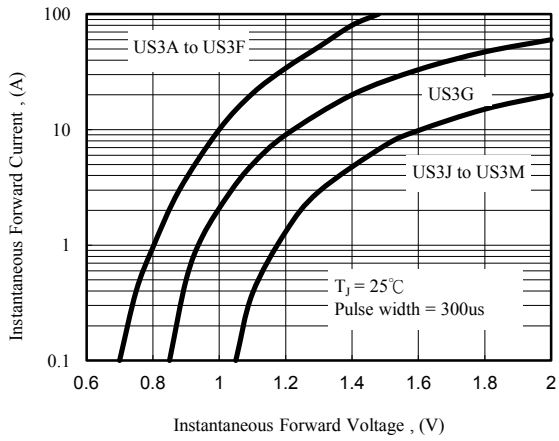


Fig. 3 - Typical Forward Characteristics

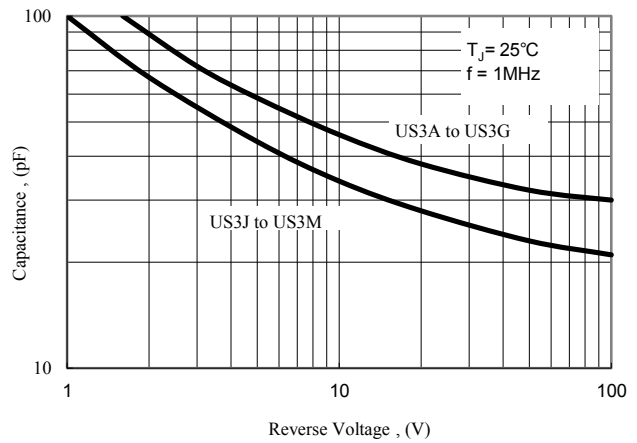


Fig. 4 - Typical Junction Capacitance