

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

**Surface Mount**  
**High Efficiency Rectifiers**

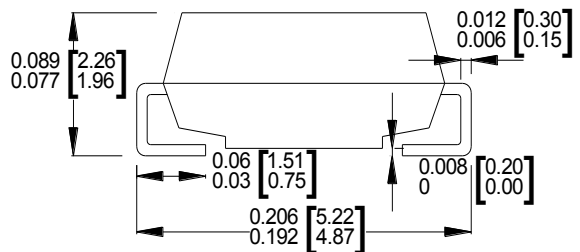
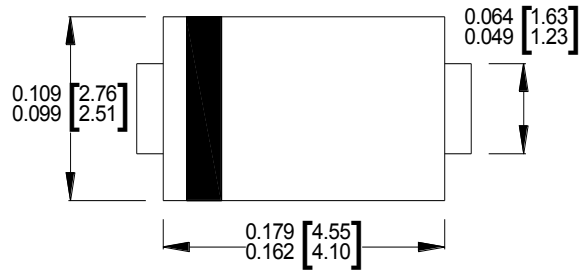
### Features

- 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

SMA / DO-214AC



Dimensions : inch [ mm ]

### Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	US1A	US1B	US1D	US1F	US1G	US1J	US1K	US1M	Unit
Maximum repetitive peak reverse voltage @ I <sub>T</sub> = 5μA	V <sub>B</sub>	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V <sub>R</sub>	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	300	400	600	800	1000	V
Maximum average forward rectified current @T <sub>A</sub> = 25°C	I <sub>F</sub>	1.0								A
Maximum instantaneous forward voltage at specified current	V <sub>F</sub>	1.0					1.7			V
Maximum DC reverse current	I <sub>R</sub>	5.0								μA
Maximum reverse recovery time <sup>(1)</sup>	T <sub>rr</sub>	50					75			ns
Operating and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 ~ 150								°C

**Note:**

(1) Reverse recovery test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A(RG1 circuit)

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

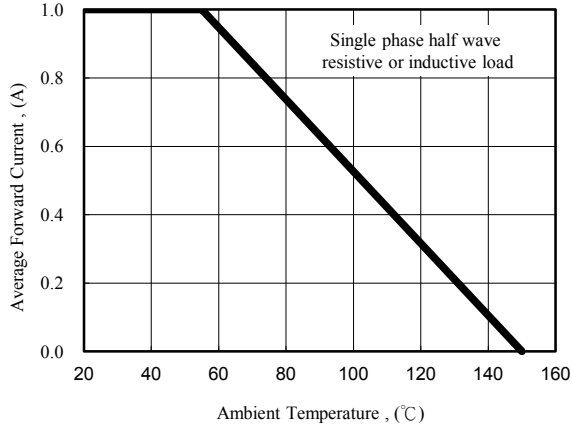


Fig. 1 - Forward Current Derating Curve

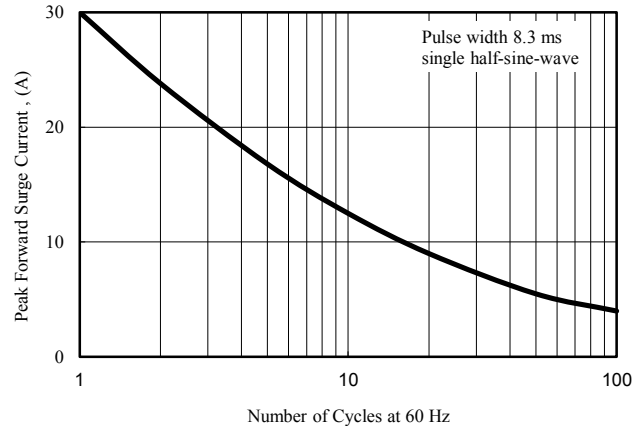


Fig. 2 - Peak Forward Surge Current

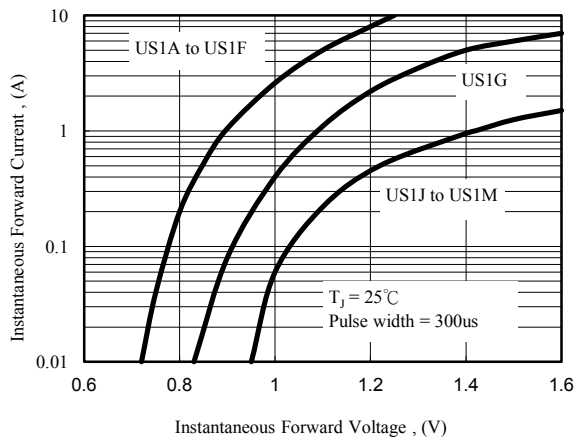


Fig. 3 - Typical Forward Characteristics

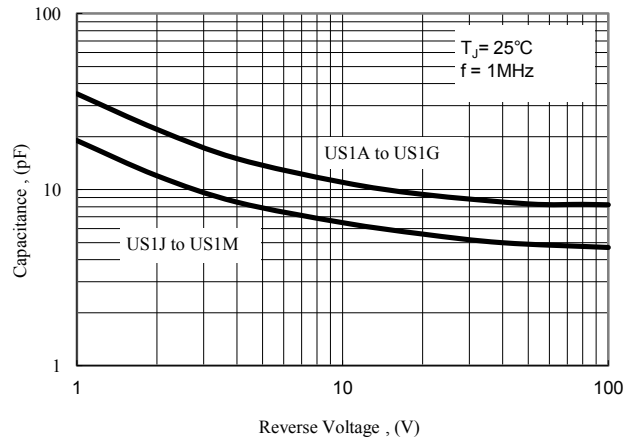


Fig. 4 - Typical Junction Capacitance