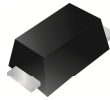


**3.0A Surface Mount Schottky Barrier Rectifiers - 20V~60V,  
SOD-123S Package**



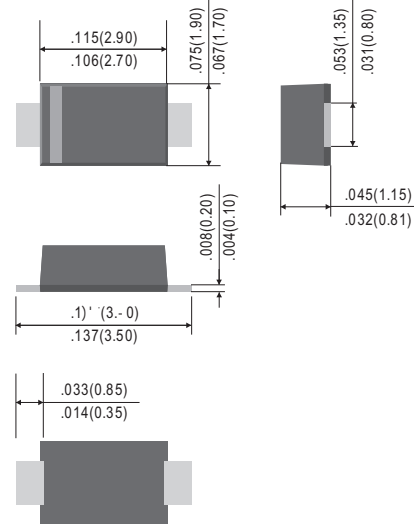
**SOD-123S**

**Features**

- High efficiency
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability
- High reliability
- Lead-free

**Mechanical Data**

- Dimensions in millimeters and inches
- All dimensions are maximum values unless otherwise specified
- Lead length is 0.10mm (0.004in)
- Lead thickness is 0.08mm (0.003in)
- Lead width is 0.15mm (0.006in)



0.10 (0.004) Lead length

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Maximum ratings are values above which the device is not guaranteed to operate reliably. Exceeding maximum ratings may affect device reliability and cause permanent damage to the device.

RATINGS	SYMBOL	SK32MF	SK34MF	SK36MF	UNIT
Reverse voltage	V <sub>R</sub>	20V	20V	20V	V
Reverse current	I <sub>R</sub>	100µA	100µA	100µA	µA
Forward current (continuous)	I <sub>F</sub>	3.0A	3.0A	3.0A	A
Forward current (surge)	I <sub>FSM</sub>	10A	10A	10A	A
Forward voltage drop	V <sub>F</sub>	0.45V	0.45V	0.45V	V
Storage temperature range	T <sub>STG</sub>	-65°C to 150°C	-65°C to 150°C	-65°C to 150°C	°C

CHARACTERISTICS	SYMBOL	SK32MF	SK34MF	SK36MF	UNIT
Thermal resistance (junction to lead)	R <sub>θJL</sub>	100°C/W	100°C/W	100°C/W	°C/W
Thermal resistance (junction to case)	R <sub>θJC</sub>	100°C/W	100°C/W	100°C/W	°C/W

Notes:  
 1. Measured at 1MHz and applied reverse voltage of 4.0VDC.  
 2. Thermal Resistance from Junction to Lead.

**3.0A Surface Mount Schottky Barrier Rectifiers - 20V~60V  
SOD-123S Package**

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

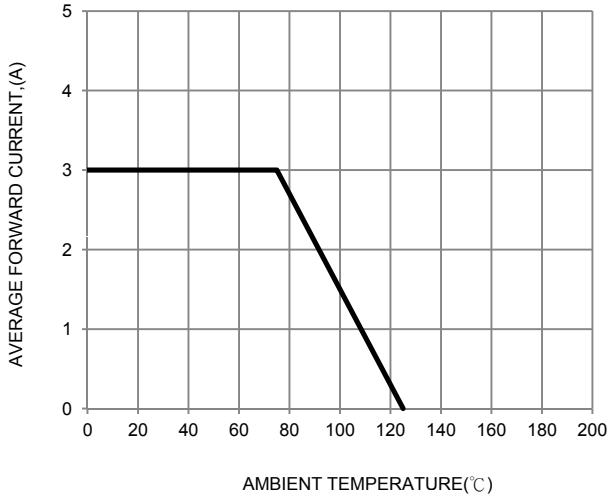


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

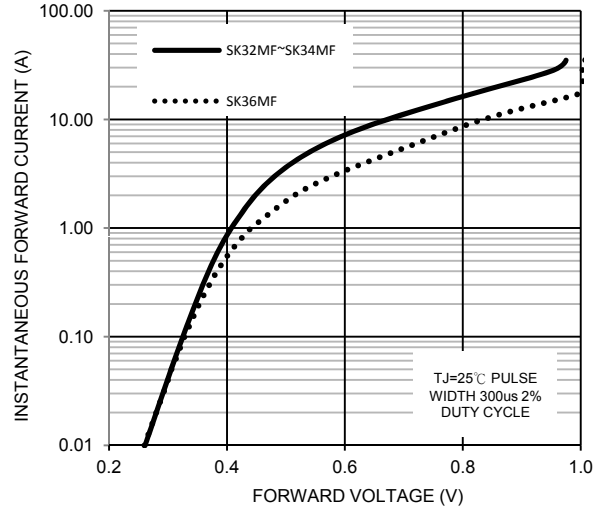


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

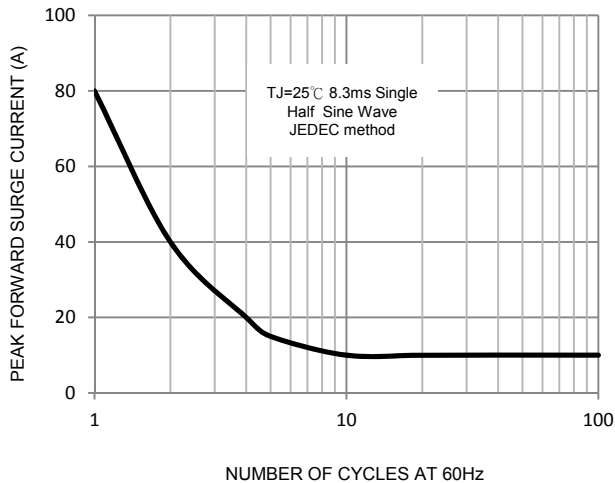


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

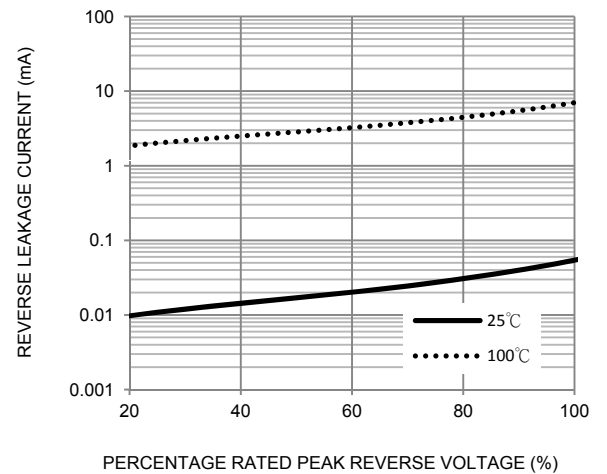


FIG. 5-TYPICAL JUNCTION CAPACITANCE

