

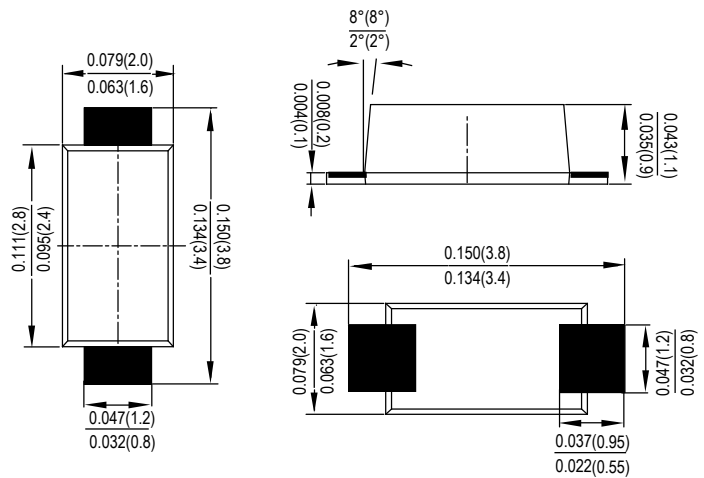
Features

- Glass passivated device
- Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed:
260℃/10 seconds,0.375"(9.5mm) lead length,
5 lbs. (2.3kg) tension
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: SOD-123FL, molded plastic
- Terminals: plated leads solderable per
MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

SOD-123FL



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	E15A	E15B	E15D	E15G	E15J	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	50	100	200	400	600	V
	V _{RWM}						
	V _{DC}						
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	V
Average Rectified Output Current @T _A =30℃	I _O	1.5					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50					A
Forward Voltage per element @I _F =1.5A	V _{FM}	0.95			1.25	1.7	V
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =100℃	I _R	5.0 100					uA
Maximum reverse recovery time (NOTE 1)	t _{rr}	35					ns
Typical junction capacitance (NOTE 2)	C _J	10					pF
Typical thermal resistance (NOTE 3)	R _{θJA}	85					℃/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55to+150					℃

Note:1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length,P.C.B. mounted

3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

FIG. 1- FORWARD CURRENT DERATING CURVE

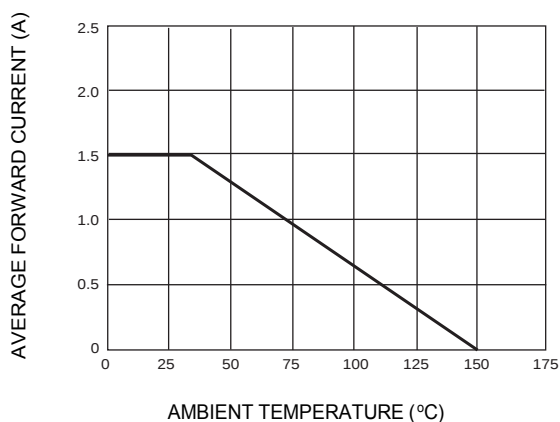


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

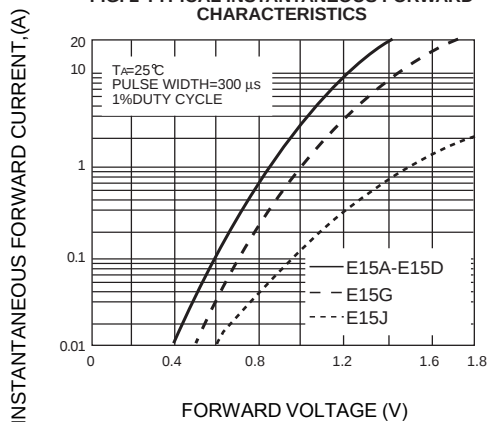


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

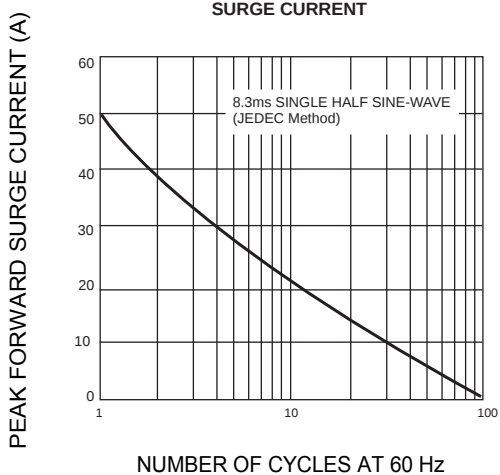


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

