

**TAYCHIPST****SURFACE MOUNT RECTIFIER****ER07A THRU ER07J****50V-600V 1.0A****FEATURES**

- Glass passivated device
- Ideal for surface mounted applications
- Low leakage current
- Metallurgically bonded construction
- High temperature soldering:
/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC SOD-123FL, molded plastic over passivated chip

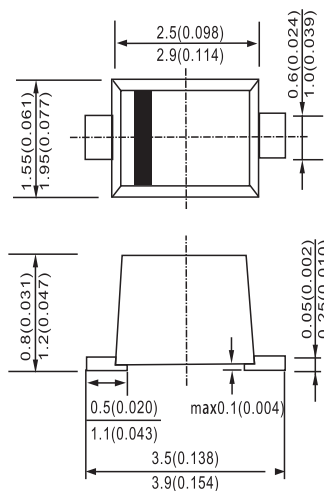
Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Weight: 0.003 ounces, 0.01 gram

Mounting position: Any

SOD-123FL



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

		ER 07A	ER 07B	ER 07C	ER 07D	ER 07E	ER 07G	ER 07H	ER 07J	UNITS
Device marking		E1	E2	E3	E4	E5	E6	E7	E8	
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	150	200	300	400	500	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	350	420	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	500	600	V
Maximum average forward rectified current T _A =65	I _(AV)	1.0								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load T _L =25	I _{FSM}	20								A
Maximum instantaneous (NOTE 1) forward voltage at 1.0A	V _F	0.95				1.25		1.7		V
Maximum DC reverse current @T _A =25 at rated DC blocking voltage @T _A =125	I _R	5.0 150								μA
Maximum reverse recovery time (NOTE 2)	t _{rr}	35								ns
Operating temperature range	T _J	- 55 --- + 150								
Storage temperature range	T _{STG}	- 55 --- + 150								

NOTES: 1. Pulse test: 300ms pulse width, 1% duty cycle.

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



RATINGS AND CHARACTERISTIC CURVES

ER07A THRU ER07J

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

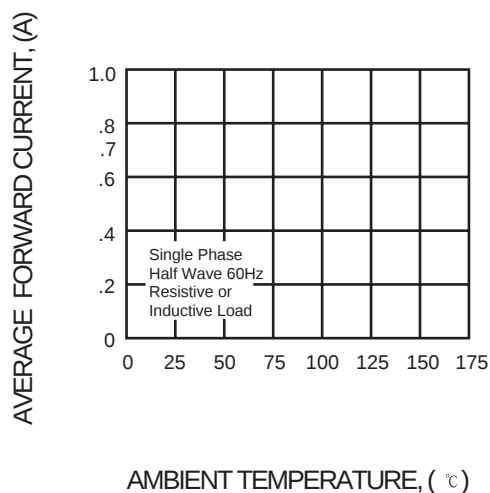


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

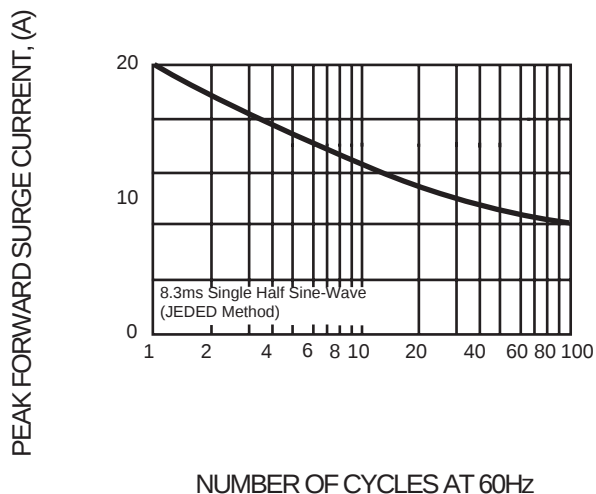


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

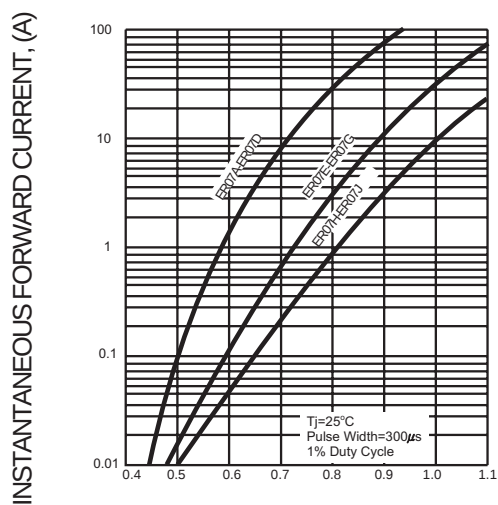


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

