

Features

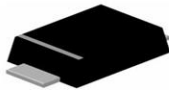
- Low forward voltage drop
- Guarding protection
- Glass passivated junction
- High current capability
- High efficiency operation
- Extremely low thermal resistance

Mechanical Data

- CASE: SOD-123FL Molded Plastic
- Polarity: Color band denotes cathode end
- Mounting position: ANY
- Weight: 0.0025 ounces, 0.071 gram

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel



SOD123FL



Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	TPBK14F	TPBK16F	TPBK110F	TPBK120F	UNITS
	Marking	K14	K16	K110	K120	
Maximum repetitive peak reverse voltage	V _{RRM}	40	60	100	200	V
Maximum RMS voltage	V _{RWS}	28	42	70	140	V
Maximum DC blocking voltage	V _{DC}	40	60	100	200	V
Maximum average forward rectified current at T _L =90℃	I _{F(AV)}	1.0				A
Peak forward surge current 8.3ms single half-sine-wave	I _{FSM}	25				A
Maximum instantaneous forward voltage at I _{FM} =1.0A (NOTE1)	V _F	0.55	0.70	0.85	0.95	V
Maximum DC reverse current T _J =25℃ at rated DC blocking voltage T _J =125℃	I _R	0.5 50.0		0.1 10.0		m A
Maximum thermal resistance	R _{θJL}	80				℃/W
Operating temperature range	T _J	-55 ---- +125				℃
Storage temperature range	T _{STG}	-55 ---- +150				℃

Typical Electrical Characteristic Curves

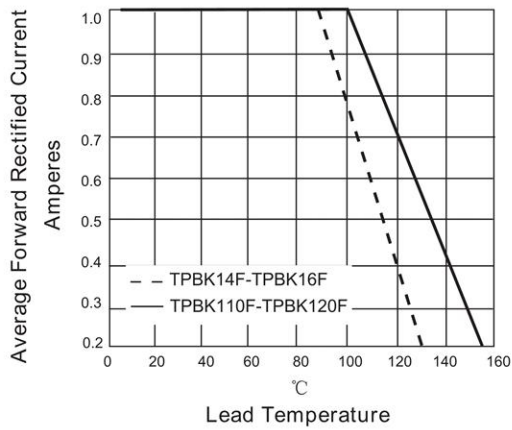


FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

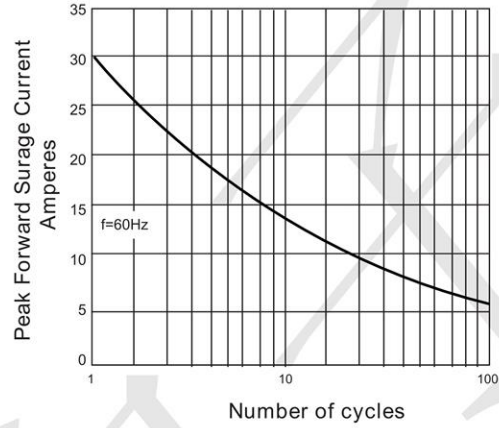


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

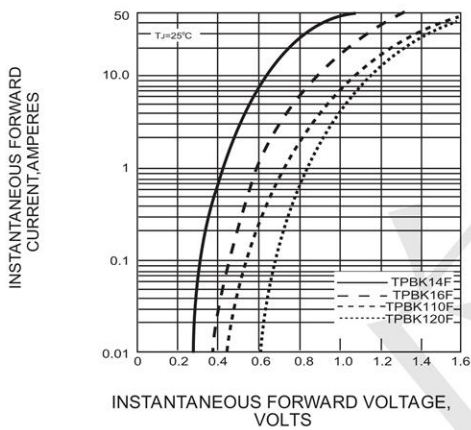


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

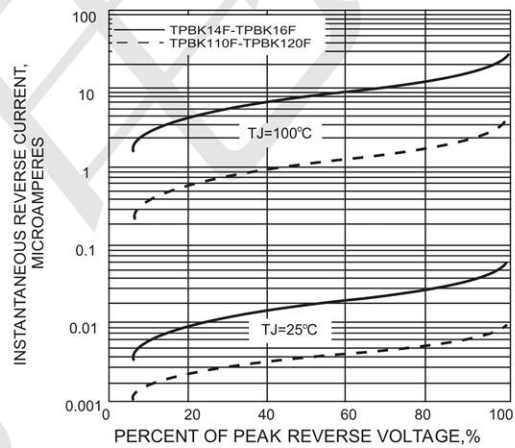
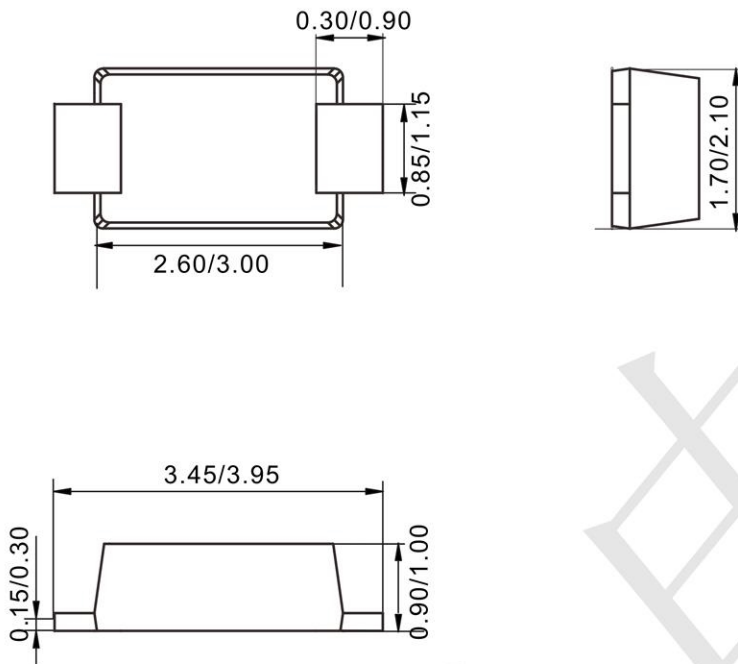


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Outline Drawing - SOD123FL (Unit: mm)



Mounting Pad Layout-SOD123FL (Unit: mm)

