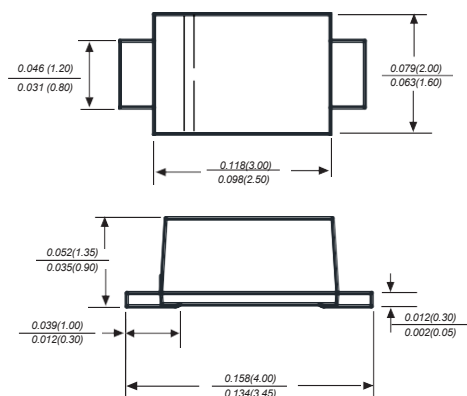


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
260 °C/10 seconds at terminals

SOD-123FL



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	DSK22	DSK24	DSK25	DSK26	DSK28	DSK210	DSK215	DSK220	UNITS
Marking Code		K22	K24	K25	K26	K28	K210	K215	K220	
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	40	50	60	80	100	150	200	V
Maximum average forward rectified current at TL(see fig.1)	I _(AV)	2.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I _{FSM}	50								A
Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70		0.85		0.95		V
Maximum DCreverse current T _A =25℃ at rated DCblocking voltage T _A =125℃	I _R	0.5				0.3				mA
		5.0				3.0				
Typical junction capacitance (NOTE 1)	C _J	220		80						pF
Typical thermal resistance (NOTE 2)	R _{θJA}	85.0								℃/W
Operating junction temperature range	T _J	-55 to +150								℃
Storage temperature range	T _{STG}	-55 to +150								℃

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Typical Characteristics

Fig.1 Forward Current Derating Curve

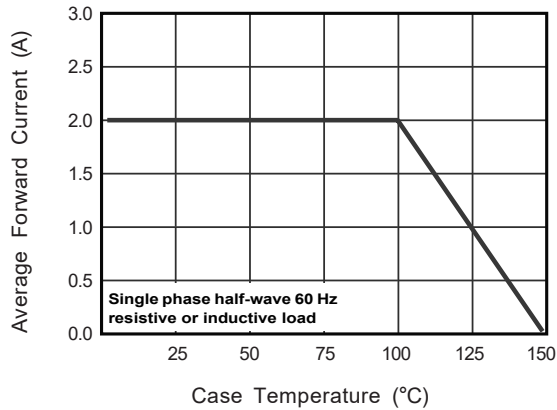


Fig.2 Typical Reverse Characteristics

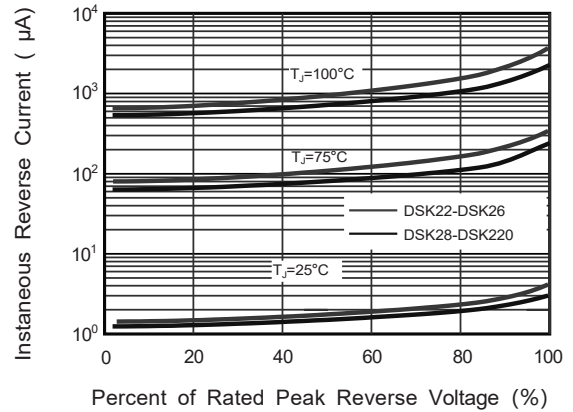


Fig.3 Typical Forward Characteristic

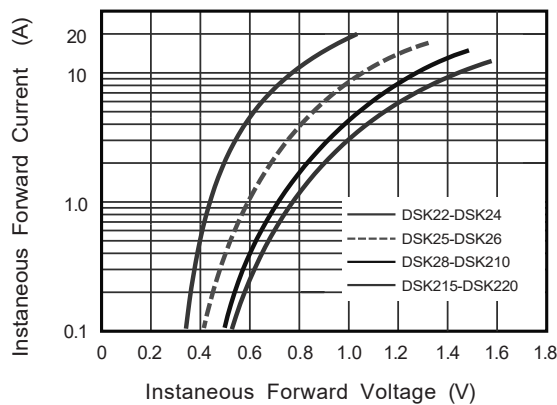


Fig.4 Typical Junction Capacitance

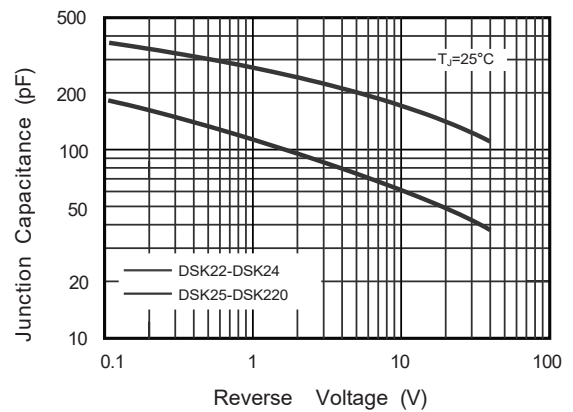


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

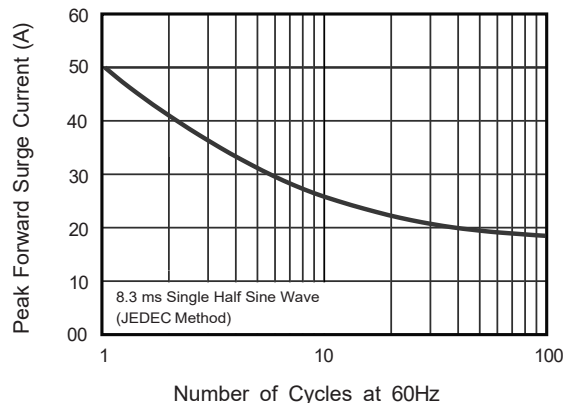
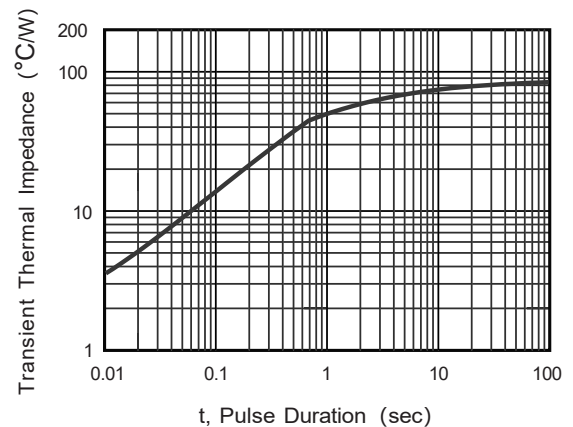


Fig.6- Typical Transient Thermal Impedance



The curve above is for reference only.