DSK22 THRU DSK220

Surface Mount Schottky Rectifiers

FEATURES

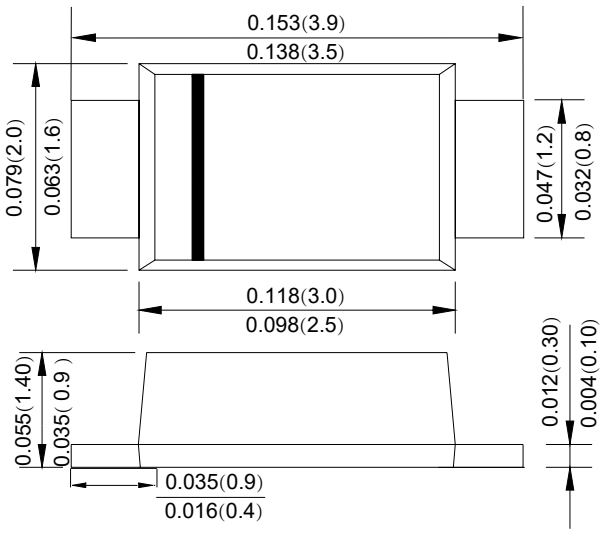
RoHS COMPLIANT

- ●Low profile package
- ●Low power losses, high efficiency
- ●Easy to pick and place
- ●High forward surge capability
- ●High temperature soldering ：260℃/10 seconds at terminals
- ●Lead free in comply with EU ROHS 2011/65/EU directives

Mechanical Data

- ●**Case** : SOD-123FL
- ●**Terminals** : Solder plated, solderable per MIL-STD-750,Method 2026
- ●**Polarity** : Cathode line denotes the cathode end
- ●**Mounting Position** : Any

SOD-123FL



Dimensions in inches and (milimeters)

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%

CHARACTERISTICS	Symbols	DSK22	DSK24	DSK26	DSK28	DSK210	DSK215	DSK220	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	150	200	V
Maximum RMS Bridge Input Voltage	V_{RMS}	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	2							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							A
Maximum Forward Voltage at 2A	V_F	0.55		0.70	0.85		0.95		V
Maximum DC Reverse Current T_A=25℃	I_R	0.2			0.1				mA
at Rated DC Blocking Voltage T_A=100℃		10			5				mA
Typical Thermal Resistance	$R_{\theta JA}$	85							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

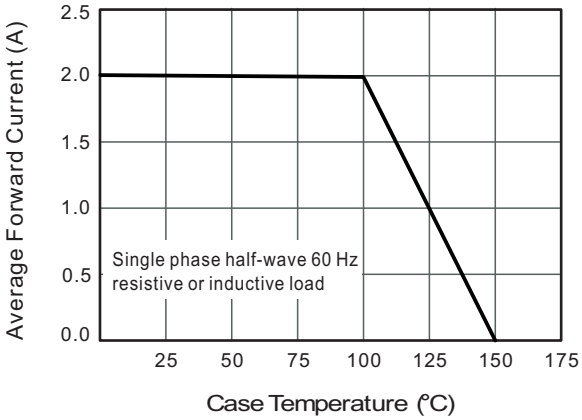


Fig.2 Typical Reverse Characteristics

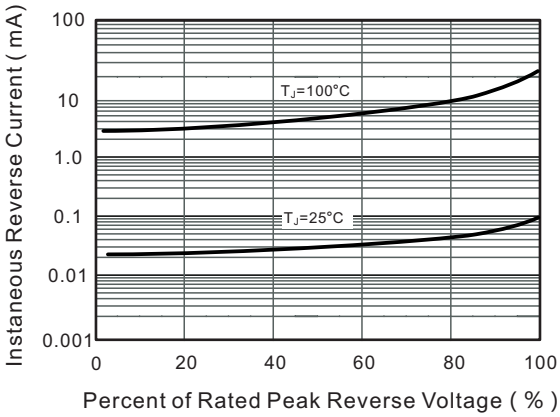


Fig.3 Typical Forward Characteristics

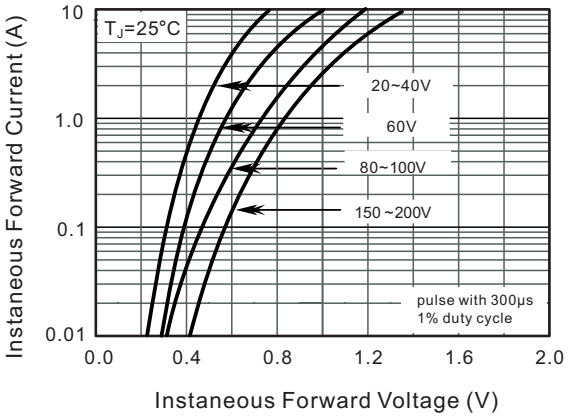
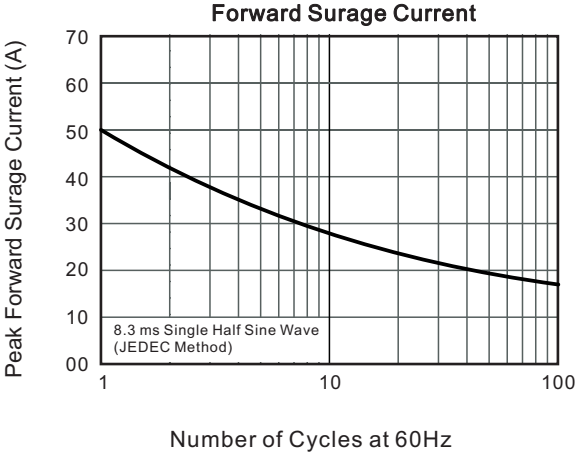
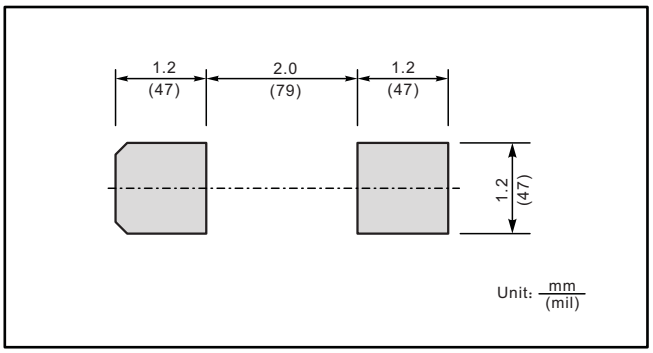


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



The recommended mounting pad size(SOD-123FL)



Marking

Type number	Marking code
DSK22	K22
DSK24	K24
DSK26	K26
DSK28	K28
DSK210	K210
DSK215	K215
DSK220	K220