DSK12 THRU DSK120

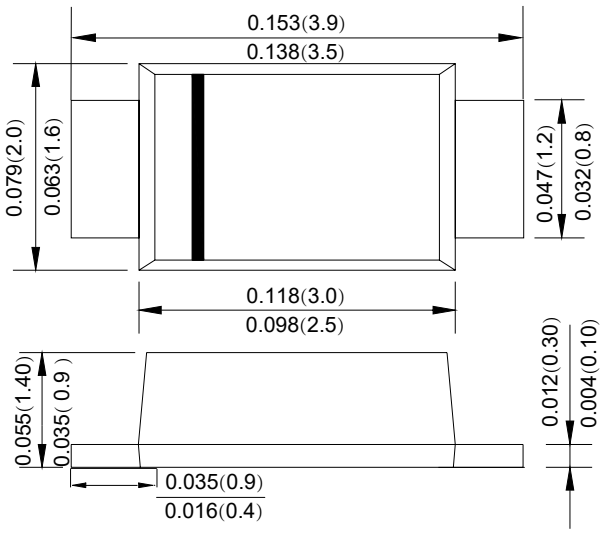
Surface Mount Schottky Rectifiers

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

SOD-123FL



Dimensions in inches and (milimeters)

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

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	DSK12	DSK14	DSK16	DSK18	DSK110	DSK115	DSK120	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	$I_{(AV)}$	1							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	25							A
Maximum Forward Voltage at 1A	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	$R_{\theta JA}$	115							℃/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

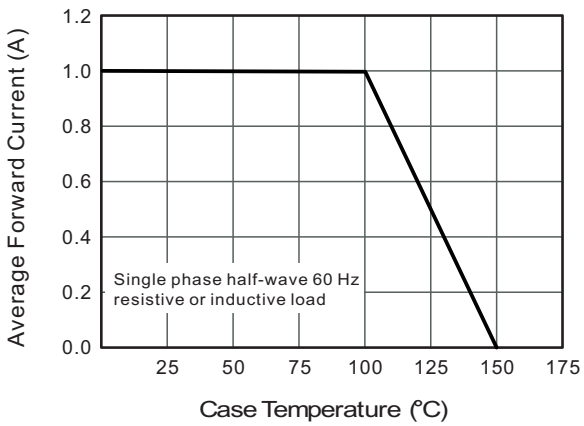


Fig.2 Typical Reverse Characteristics

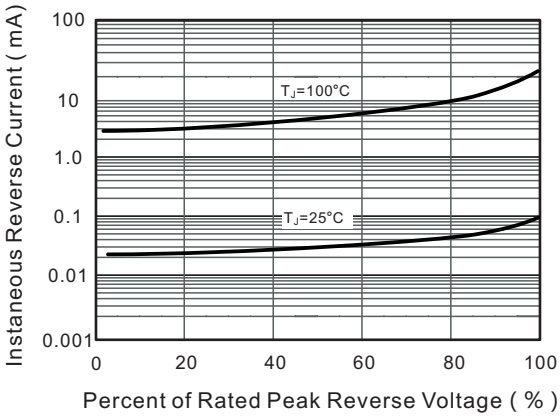


Fig.3 Typical Forward Characteristics

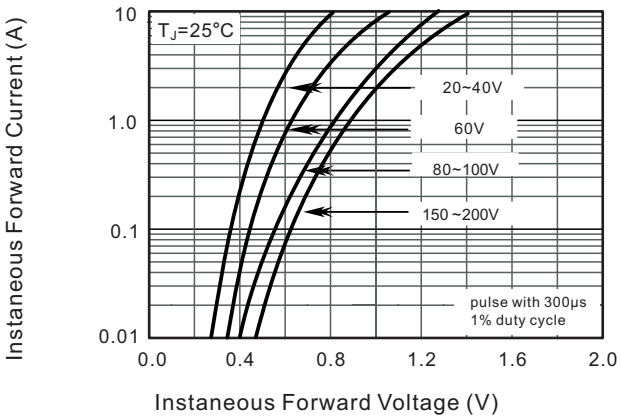
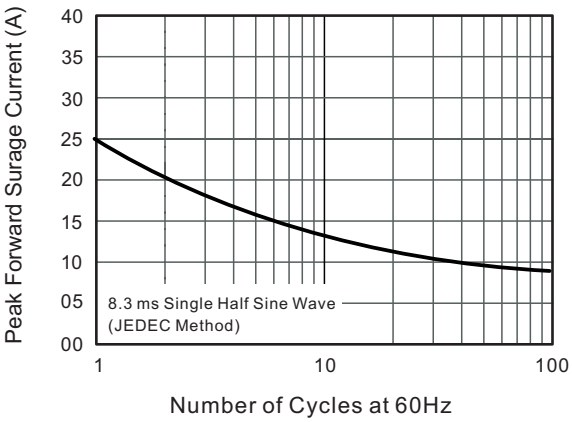
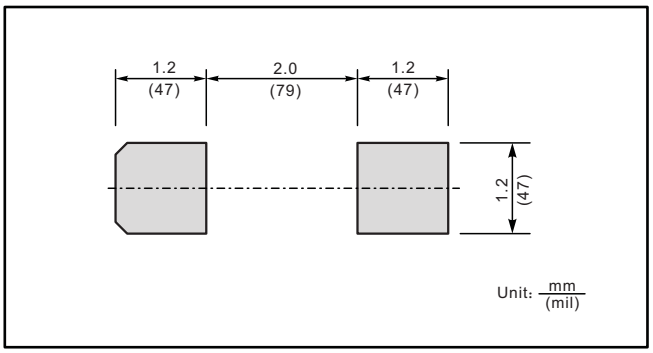


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



The recommended mounting pad size(SOD-123FL)



Marking

Type number	Marking code
DSK12	K12
DSK14	K14
DSK16	K16
DSK18	K18
DSK110	K110
DSK115	K115
DSK120	K120