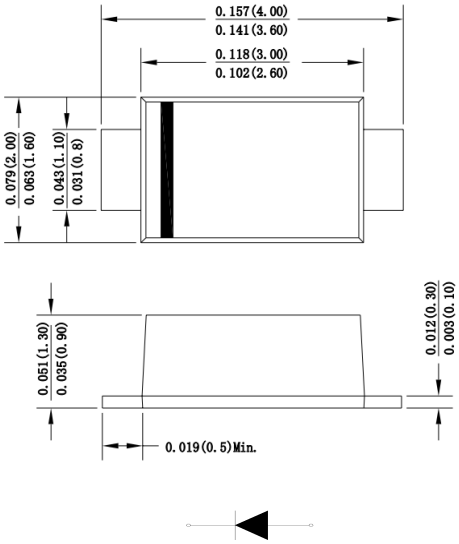
DSK32-DSK320

Surface Mount Schottky Rectifier

SOD-123FL

Features

1. The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
2. For surface mounted applications
3. Metal silicon junction,majority carrier conduction
4. Low power loss,high efficiency
5. Built-in strain relief,ideal for automated placement
6. High forward surge current capability
7. High temperature soldering guaranteed: 250 °C/10 seconds at terminals



Dimensions in inches and (millimeters)

Mechanical Date

Case : JEDEC SOD-123FL molded plastic body
Terminals : Solderable per MIL-STD-750, Method 2026
Polarity : Color band denotes cathode end
Mounting Position : Any
Weight : 0.0007 ounce, 0.02 grams

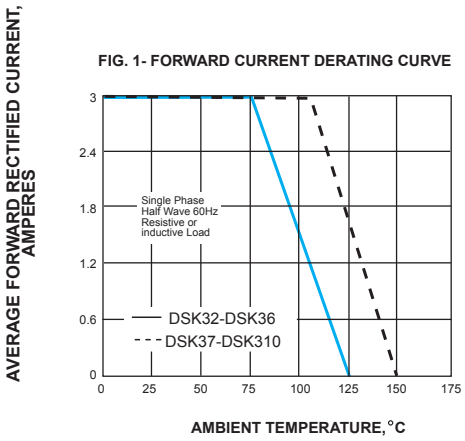
Maximum Ratings And Electrical Characteristics

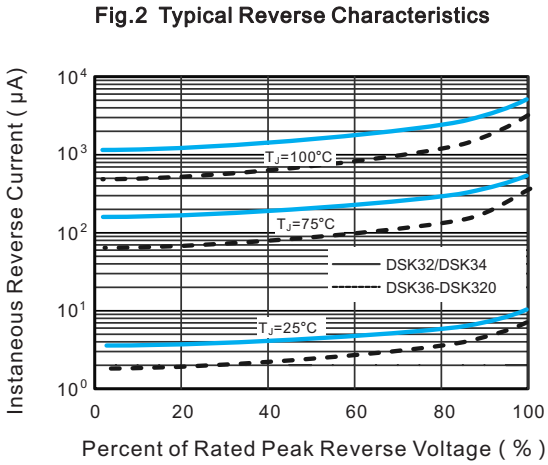
Ratings at 25°C ambient temperature unlss otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

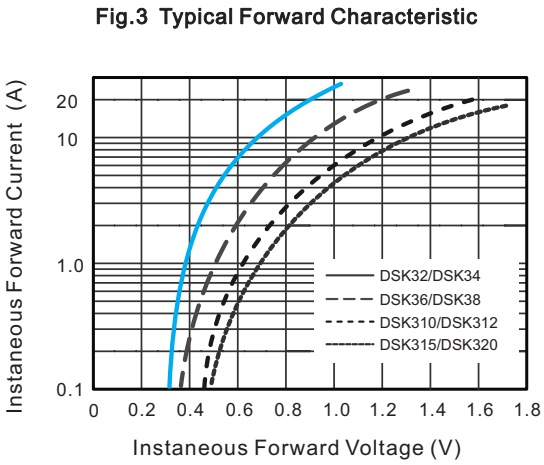
Parameter	SYMBOLS	DSK32	DSK34	DSK35	DSK36	DSK38	DSK310	DSK315	DSK320	UNITS
Marking Code		K32	K34	K35	K36	K38	K310	K315	K320	
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	50	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	40	50	60	80	100	150	200	V
Maximum average forward rectified current at TL(see fig.1)	$I_{(AV)}$	3.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I_{FSM}	80								A
Maximum instantaneous forward voltage at 3.0A	V_F	0.52	0.70	0.70		0.85				V
Maximum DCreverse current T_A=25℃	I_R	0.5								mA
at rated DCblocking voltage T_A=125℃		20.0				10.0				
Typical junction capacitance (NOTE 1)	C_J	250		160						pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	80.0								℃/W
Operating junction temperature range	T_J	-55 to +125								℃
Storage temperature range	T_{STG}	-55 to +150								℃

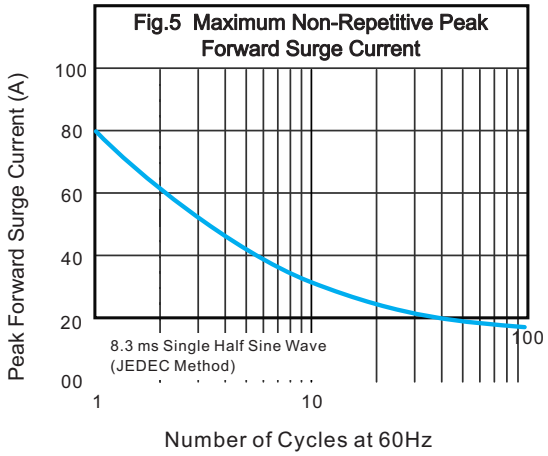
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Typical Characterisitics

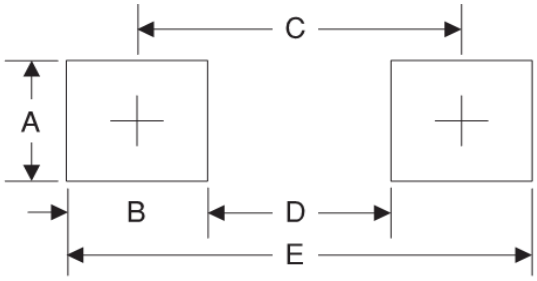








Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	1.2	0.048
B	1.15	0.045
C	3.10	0.122
D	1.95	0.077
E	4.25	0.167