

Reverse Voltage - 20 to 200 V
 Forward Current - 3.0A

FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 15mg 0.00048oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

Marking Code: K32~K320

Simplified outline SOD-123FL and symbol

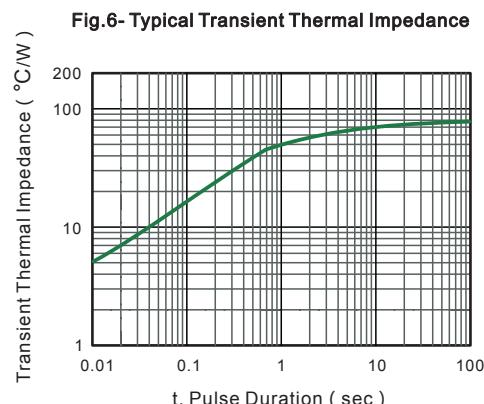
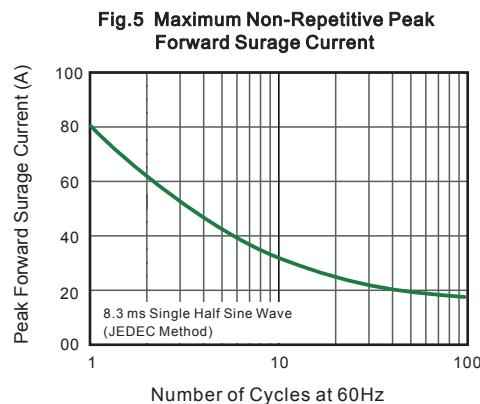
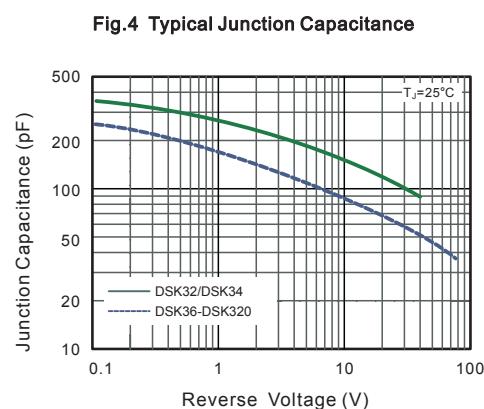
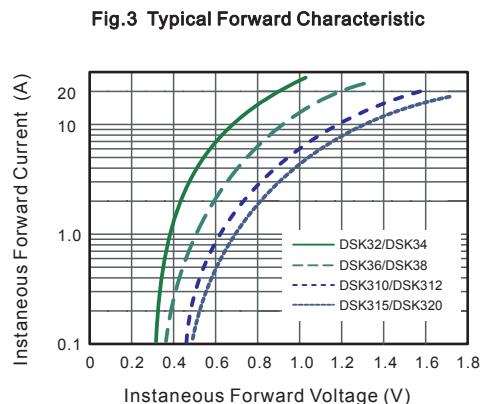
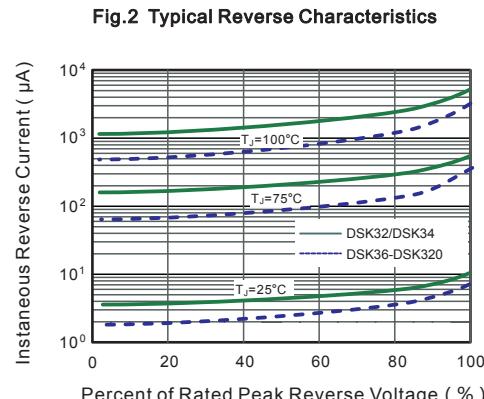
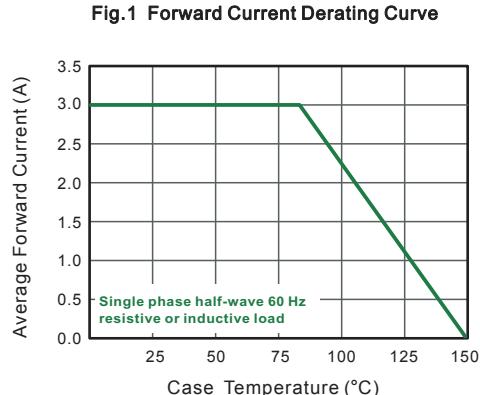
Absolute Maximum Ratings and Electrical characteristics

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

Parameter	Symbols	DSK32	DSK34	DSK36	DSK38	DSK310	DSK312	DSK315	DSK320	Units		
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V		
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V		
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V		
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3.0							A			
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	80							A			
Max Instantaneous Forward Voltage at 3 A	V_F	0.55		0.70		0.85		0.95		V		
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Reverse Voltage $T_a = 100^\circ C$	I_R	0.5 10		0.3 5						mA		
Typical Junction Capacitance ⁽¹⁾	C_J	250		160						pF		
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	80							$^\circ C/W$			
Operating Junction Temperature Range	T_j	-55 ~ +150							$^\circ C$			
Storage Temperature Range	T_{stg}	-55 ~ +150							$^\circ C$			

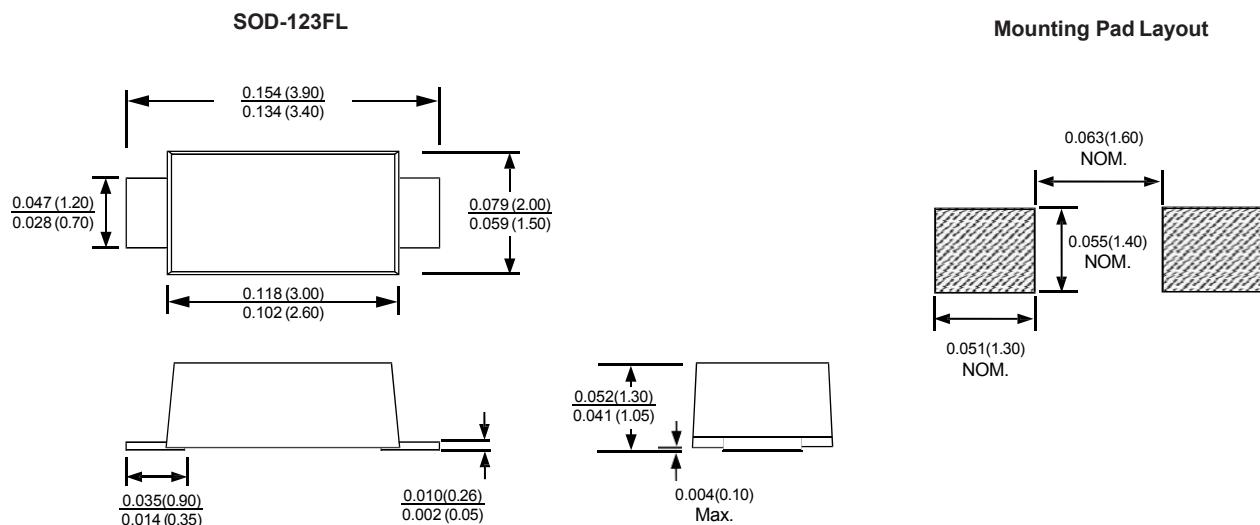
(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C.

(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



Ordering Information (Example)

PREFERRED P/N	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DSK32 THRU DSK320	3000	24000	120000	7" reel

Marking

Type number	Marking code
DSK32	K32
DSK34	K34
DSK36	K36
DSK38	K38
DSK310	K310
DSK312	K312
DSK315	K315
DSK320	K320