



DSK32 THRU DSK320

SCHOTTKY BARRIER RECTIFIER

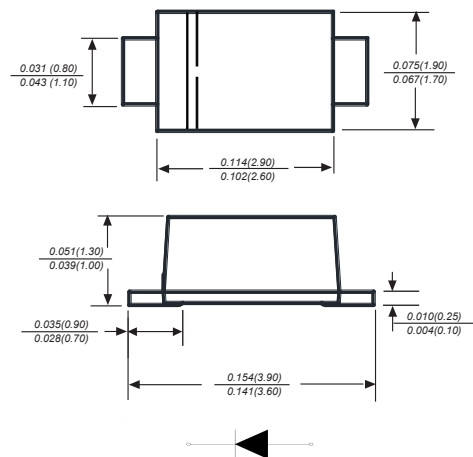
Features

- 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:
250 °C/10 seconds at terminals

Mechanical Data

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

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	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	0.55		0.70		0.85		0.95		V
Maximum DCreverse current at rated DCblocking voltage	I _R	0.5		0.3						mA
T _A =25℃ T _A =100℃		10.0		5.0						
Typical junction capacitance (NOTE 1)	C _J	250		160						pF
Typical thermal resistance (NOTE 2)	R _{θJA}	80.0								℃/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

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Fig.1 Forward Current Derating Curve

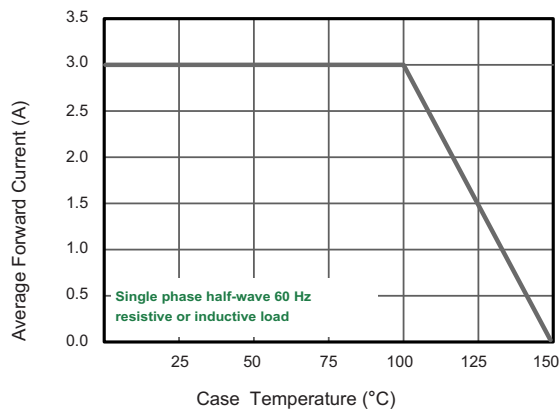


Fig.2 Typical Reverse Characteristics

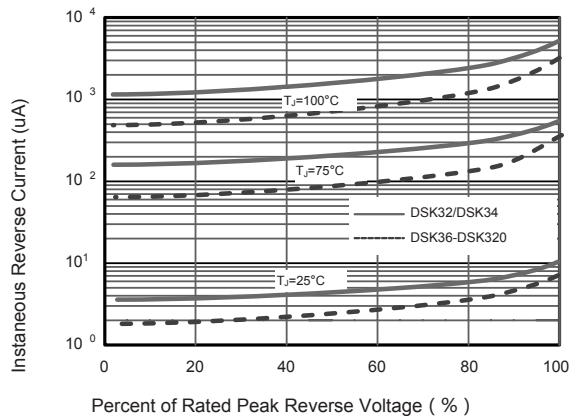


Fig.3 Typical Forward Characteristic

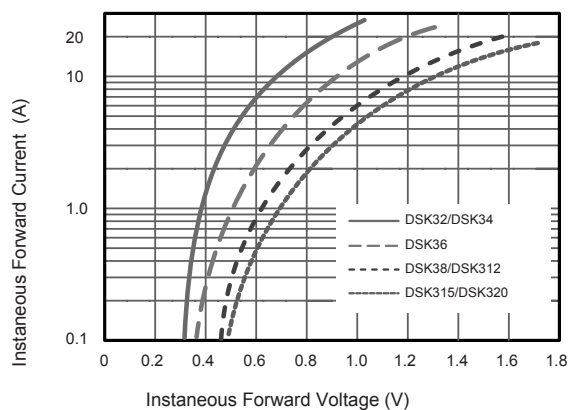


Fig.4 Typical Junction Capacitance

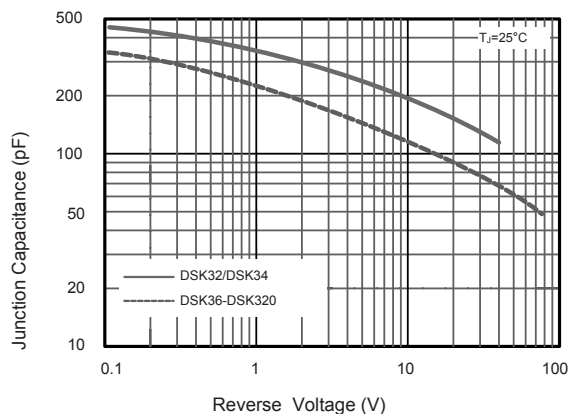


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

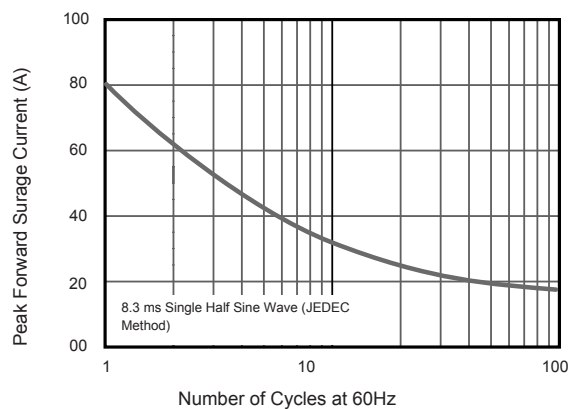


Fig.6- Typical Transient Thermal Impedance

