

Schottky Barrier Rectifiers

REVERSE VOLTAGE - 20 to 200Volts FORWARD CURRENT - 3.0 Amperes

SOD-123FL

General description

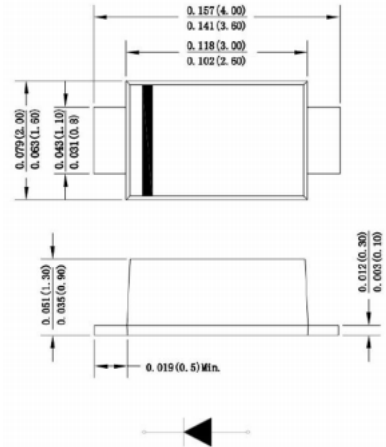
3.0Amp Surface Mounted Schottky Barrier Rectifiers

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
- 250 C/10 seconds at terminals.

MECHANICAL DATA

- Case: Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body
- Mounting Position: Any
- Weight: 0.0007 ounce, 0.02 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Parameter	SYMBOLS	DSK32	DSK34	DSK36	DSK38	DSK310	DSK315	DSK320	UNITS
Marking Code	Mark	DSK32	DSK34	DSK36	DSK38	DSK310	DSK315	DSK320	N /A
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	60	80	100	150	200	v
Maximum RMS 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 at T _L =100°C	I _{AV}	3.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	70.0							A
Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70	0.85		0.95		v
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R	0.5 50			0.05 10				mA
Typical thermal resistance	R _{qJA}	85.0							°C/W
Operating junction temperature range	T _J	-55 to +125			-55 to +150				°C
Storage temperature range	T _{STG}	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

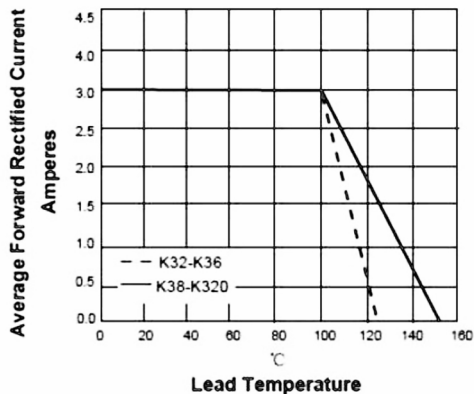


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

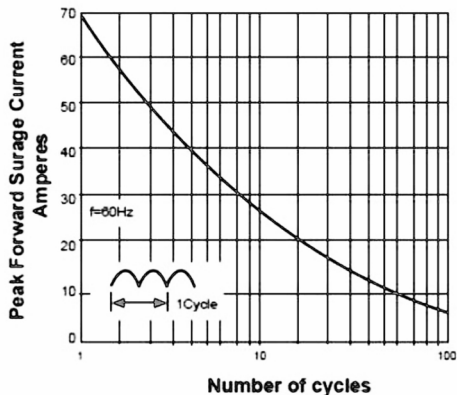


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

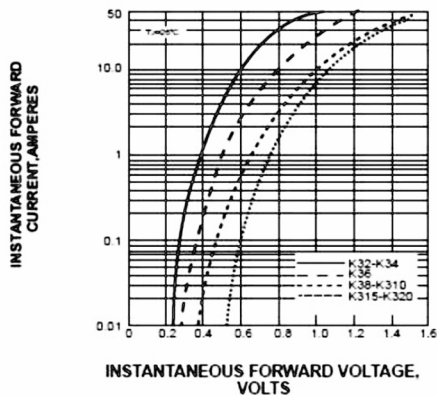


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

