

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE: 20 to 200 VOLTS FORWARD CURRENT: 3.0 AMPERE

Features

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

Mechanical Data

■ Case: SOD-123FL molded plastic body

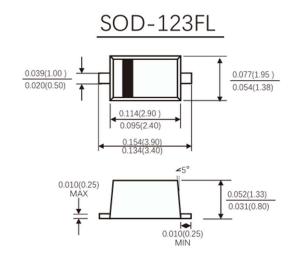
Terminals: Solder plated, solderable per

MIL-STD-750, Method 2026

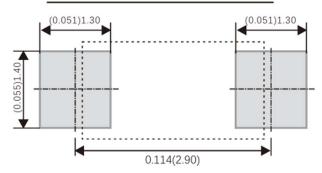
Polarity: color band denotes cathode end

Mounting Position: Any

■ Tape Reel: 3000pcs



Suggested PAD Layout



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load.

For capacitive load, derate current by 20%

Parameters / Marking Code		Symbols	K32	K33	K34	K36	КЗА	КЗВ	K3D	Units
Maximum repetitive peak reverse voltage		Vrrm	20	30	40	60	100	150	200	Volts
Maximum RMS voltage		Vrms	14	21	28	42	70	105	140	Volts
Maximum DC blocking voltage		VDC	20	30	40	60	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length (See Fig.1)		I(AV)	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	80.0							Amps
Maximum instantaneous forward voltage at 3.0 A(Note 1)		VF	0.55 0.7			0.70	0. 85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A =25°C	le.	100				20			μA
	T _A =100°C	lr	5							A
	T _A =125°C							3		mA
Typical junction capacitance(Note 2)		Cı	250 160					РF		
Typical thermal resistance		Reja	80							°C/W
Operating junction temperature range		TJ	-55 to+150							°C
Storage temperature range		Tstg	-55 to+150							°C

NOTES:

- 1. Pulse test: 300µs pulse width, 1% duty cycle
- 2. Measured at 1MHz and reverse voltage of 4.0volts





RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

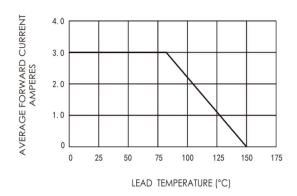


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

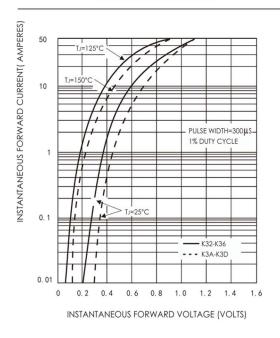


FIG.5-TYPICAL JUNCTION CAPACITANCE

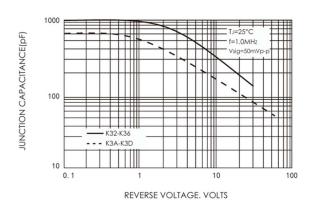


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

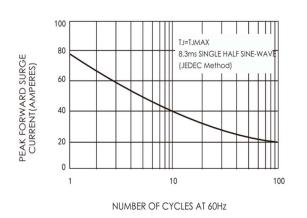
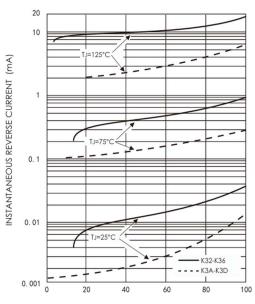


FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE%