SK32 THRU SK310

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 20 to 100 Volts Forward Current - 3.0 Amperes

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 SMA molded plastic body

Terminals: leads solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.058 grams

$\underbrace{\begin{array}{c}0.067\ (1.70)\\0.051\ (1.29)\end{array}}_{0.051\ (1.29)} & \underbrace{\begin{array}{c}0.110(2.79)\\0.086(2.18)\end{array}}_{0.080(4.57)} & \underbrace{\begin{array}{c}0.180(4.57)\\0.160(4.06)\end{array}}_{0.050(4.06)} & \underbrace{\begin{array}{c}0.012(0.305)\\0.006(0.152)\end{array}}_{0.006(0.152)} & \underbrace{\begin{array}{c}0.012(0.305)\\0.006(0.152)\end{array}}_{0.005(1.70)} & \underbrace{\begin{array}{c}0.059(1.50)\\0.005(1.50)\end{array}}_{0.035(0.89)} & \underbrace{\begin{array}{c}0.209(5.31)\\0.185(4.70)\end{array}}_{0.185(4.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(4.70)\end{array}}_{0.185(4.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(4.70)}_{0.185(4.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(4.70)}_{0.185(4.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(4.70)}_{0.185(4.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(4.70)}_{0.185(4.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(5.70)}_{0.185(4.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(5.70)}_{0.185(4.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(5.70)}_{0.185(5.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(5.70)}_{0.185(5.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(5.70)}_{0.185(5.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(5.70)}_{0.185(5.70)} & \underbrace{\begin{array}{c}0.209(5.70)\\0.185(5.7$

SMA

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^\circ\!\!\mathbb{C}$ ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SK32	SK33	SK34	SK35	SK36	SK38	SK310	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	50	60	80	100	VOLTS
Maximum RMS voltage	Vrms	14	21	28	35	42	56	70	VOLTS
Maximum DC blocking voltage	Vdc	20	30	40	50	60	80	100	VOLTS
Maximum average forward rectified current at TL(see	l(AV) 3.0								4.000
fig.1)	I(AV)	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave	IFSM	70.0							Amps
superimposed on rated load (JEDEC Method)	IFSM								
Maximum instantaneous forward voltage at 3.0A	Vf	0.55			0.70		0.	85	Volts
Maximum DC reverse current Ta=25°C	0.5								
at rated DC blocking voltage Ta=100 $^\circ\!\mathrm{C}$	lr	20			10				mA
Typical junction capacitance (NOTE 1)	Ci	500 300						pF	
Typical thermal resistance (NOTE 2)	Rqja	55.0							°C/W
Operating junction temperature range	TJ,	-65 to +125 -65 to +150					°C		
Storage temperature range	Тѕтс	-65 to +150							°C

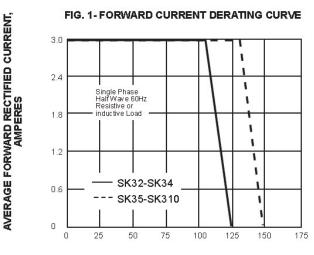
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

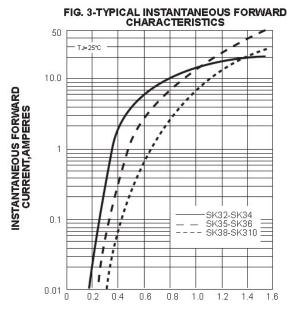
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

SK32 THRU SK310

RATINGS AND CHARACTERISTIC CURVES SK32 THRU SK310



AMBIENT TEMPERATURE, °C



INSTANTANEOUS FORWARD VOLEAGE, VOLTS

FIG. 5-TYPICAL JUNCTION CAPACITANCE

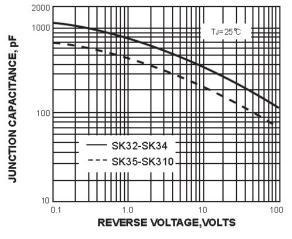
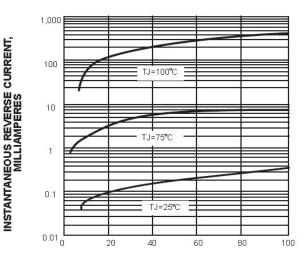


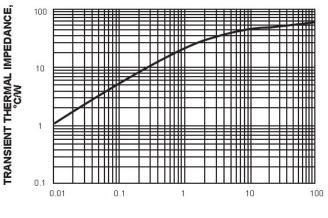
FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF PEAK REVERSE VOLTAGE,%

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t, PULSE DURATION, sec.