Kingtronics[®] International Company

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SS12 THRU SS110

1.0AMP.SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage Range 20 to 100 Volts Current 1.0Amperes

FEATURES

- For surface mounted application
- Easy pick and place
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low VF
- High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- Epitaxial construction
- ♦ High temperature soldering: 260°C / 10 seconds at terminals

MECHANICAL DATA

Case: molded plastic

Terminals: Solder plated

Polarity : Indicated by cathode band

Packaging: 12mm tape EIA STD RS-481

Weight: 0.074gram

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%.

Type Number		SS12	SS13	SS14	SS15	SS16	SS19	SS110	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	20	30	40	50	60	90	100	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current at TL(See Fig. 2)	IF(AV)	1.0							А
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	Ifsm	30							A
Maximum Instantaneous Forward Voltage (Note@1.0 A	VF	0.50			0.75		0.80		V
Maximum DC Reverse Crrent @ TA=25°C At Rated DC Blocking Voltage @ TA=125°C	lr	0.4 10.0			0.4 5.0		0.1 2.0		mA
Typical Thermal Resistance (Note)	Rqjl Rqja	28 88							°C /W
Operating Junction Temperature Range	TJ	-6	-65 to +125 -65 to +150					°C	
Storage Temperature Ranage	Tstg	-65 to +150							°C

SMA $\xrightarrow{.071(1.8)}_{.055(1.4)}$ $\xrightarrow{.161(4.10)}_{.156(3.95)}$ $\xrightarrow{.161(4.10)}_{.156(3.95)}$ $\xrightarrow{.103(2,61)}_{.078(1.99)}$ $\xrightarrow{.005(1.41)}_{.035(.90)}$ $\xrightarrow{.003(5.15)}_{.195(4.95)}$

Dimensions in inches and (millimeters)

SS12 THRU SS110

RATING AND CHARACTERISTIC CURVES SS12 THRU SS110

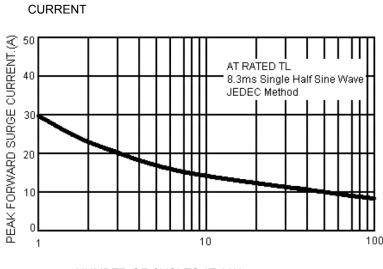
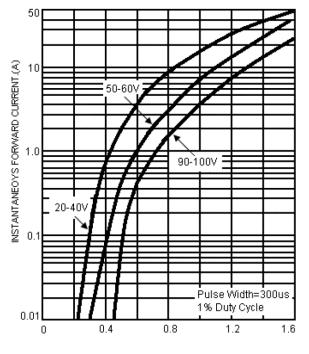


FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE

NUMBER OF CYCLES AT 60Hz

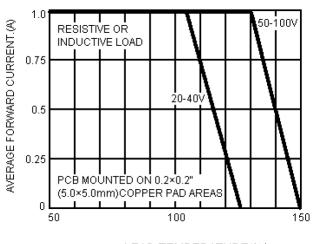


CHARACTERISTICS



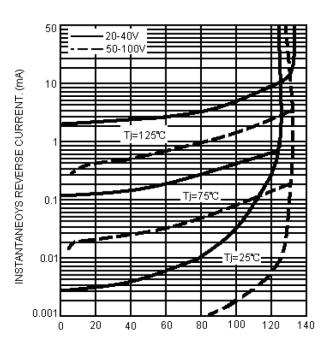
INSTANT ANEOUS FORWARD VOLTAGE(V)

FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE



LEAD TEMPERATURE(°C)

FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE(%)

Note: Specifications are subject to change without notice.