



MASTER INSTRUMENT CORPORATION

SRUFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER
SK32 THRU SK38

VOLTAGE RANGE 20 to 100 Volts
Forward Current 3.0 Amperes

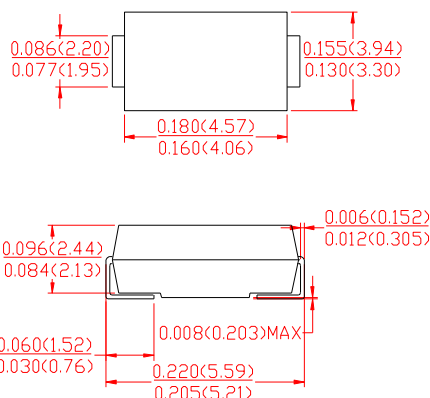
FEATURES

- Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Metal silicon junction,majority carrier conduction
- For surface mount applications
- Guardring for over voltage protection
- Low power loss,high efficiency
- High current capability,Low forward voltage drop
- High surge capability
- For use in low voltage,high frequency inventers,free wheeling and polarity protection applications.
- High temperature soldering:250 °C/10 seconds at terminals

MECHANICAL DATA

- Case: JEDED DO-214AB molded plastic.
- Terminal:Solder Plated solder able per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007 ounce. 0.21gram

SMB(DO-214AA)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load.

	Symbols	SK32	SK33	SK34	SK35	SK36	SK38	SK39	SK310	UNITS	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	Volts	
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	Volts	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	Volts	
Maximum Average Forward Rectified Current at TL(see figure)	I _(AV)	3.0								Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100								Amps	
Maximum Instantaneous Forward Voltage at 2.0A	V _F	0.55			0.75		0.85			Volts	
Maximum DC Reverse Current(Note) at Rated DC blocking voltage	T _A =25 °C	I _R	0.5								mA
	T _A =100 °C		20.0								
Maximum Thermal Resistance (Note 2)	R _{QJL}	10.0								°C/W	
	R _{QJA}	60.0									
Operating Junction and Storage Temperature Range	T _J	-55to+125				-55to+150				°C	
Storage temperature range	T _{STG}	-55 to +150								°C	
NOTES:											
1. Test condition:Puse width 300us,Duty cycl 2%											
2. Mounted on P.C board with 8.0 mm2(0.13mm thick) copper land areas											



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RATING AND CHARACTERISTIC CURVES SK32 thru SK310

FIG.1-FORWARD CURRENT DERATING CURVE

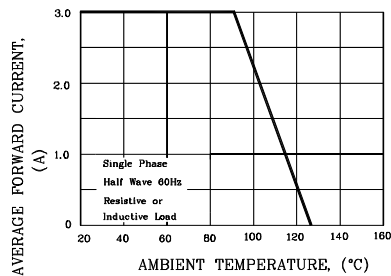


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

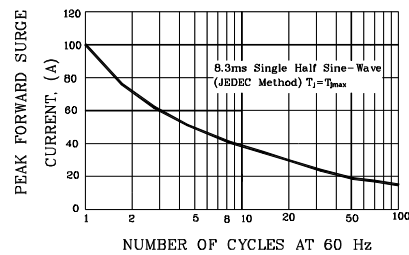


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

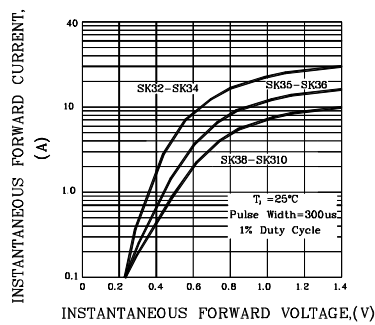


FIG.4-TYPICAL JUNCTION CAPACITANCE

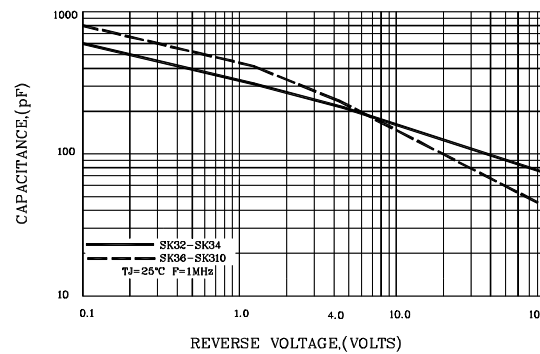


FIG.5-TYPICAL REVERSE CHARACTERISTICS

