

SCHOTTKY BARRIER RECIFITERS

PRODUCT SUMMARY

Surface Mount Low Reverse Voltage 20 to 60 volts Forward Current 1.0 Ampere

FEATURES

For surface mounted application
Metal-Semiconductor junction with guardring
Epitaxial construction
Very low forward voltage drop
High current capability
Plastic material has UL flammability classification 94V-0
wheeling, and polarity protection applications

MECHANCIAL DATA

Cases: JEDEC DO-214AC(SMA) molded plastic

Polarity: Indicated by cathode band Weight: 0.002 ounce, 0.064 gram



Pb-free; RoHS-compliant

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

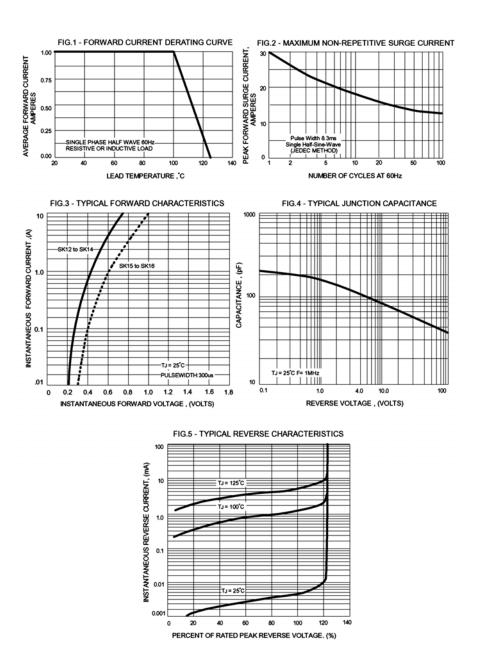
Parameter	Symbols	SK12	SK13	SK14	SK15	SK16	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	Volts
Maximum average forward rectified current @T _L =100°C	I _(AV)	1.0					Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30.0					Amps
Maximum forward voltage at 1.0A DC	V _F	0.50 0.70			Volts		
Maximum DC reverse current @T_=25°C at rated DC blocking voltage @T_=100°C	l _R	0.5 10.0					mA
Typical junction capacitance (Note 1)	C	110					pF
Typical thermal resistance (Note 2)	R _{eJL}	20					°C/W
Operating junction temperature range	T _J	-55 to +125					°C
Storage temperature range	T _{STG}	-55 to +150					°C

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

^{2.} Thermal Resistance Junction to Lead.



RATINGS AND CHARACTERISTIC CURVES



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