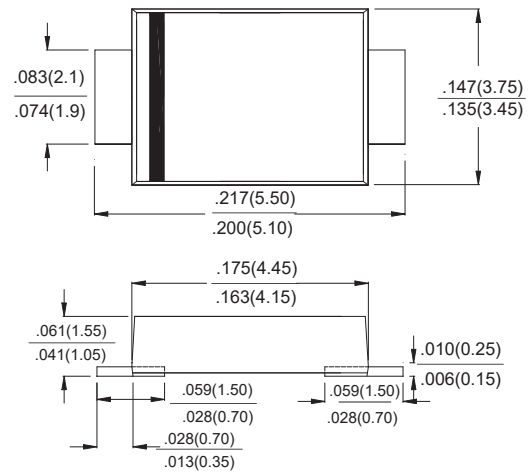


Features And Mechanical Data

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring 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 inverters, free wheeling ,and polarity protection applications
- High temperature soldering:260°C MAX at 10 seconds, per JESD 22-B106 or MIL-STD-750,method 2026
- Case: JEDEC SMBF molded plastic body



Dimensions in inches and (millimeters)

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, derate current by 20%.

Type Number	Symbols	SK54F	SK45F	SK56F	SK58F	SK510F	SK512F	SK515F	SK520F	Units
marks		SS54	SS45	SS56	SS58	SS510	SS512	SS515S	SS520	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	60	80	100	120	150	200	Volts
Maximum RMS Voltage	V _{RMS}	28	31.5	42	56	70	84	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	40	45	60	80	100	120	150	200	Volts
Maximum Average Forward Rectified Current. Lead Length @Ta(Fig 1)	I _(AV)	5.0								Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method) (Rating of per diode)	I _{FSM}	90								Amp
Maximum instantaneous forward voltage at I _(AV)	V _F	0.55		0.75		0.85		0.90	0.95	Volts
Maximum DC reverse current at rated T _J =25°C DC blocking voltage per T _J =100°C	I _R	0.5			0.1					mA
		50			10					
Typical Thermal Resistance	R _{θJL}	20								°C/W
Junction Temperature	T _J	-65 to +125			-65 to +150					°C
Storage Temperature Range	T _{STG}	-65 to +150								°C

RATINGS AND CHARACTERISTIC CURVES

