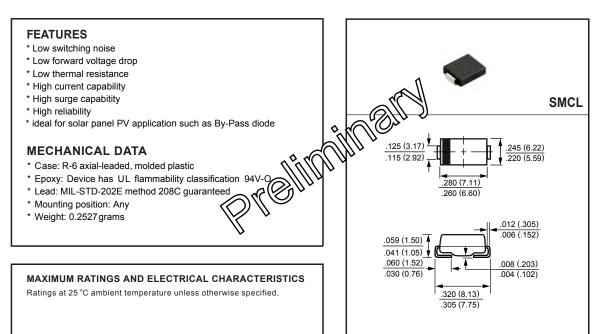




# SCHOTTKY BARRIER SOLAR RECTIFIER

VOLTAGE 45 Volts CURRENT 16 Amperes



Dimensions in inches and (millimeters)

RATINGS	SYMBOL	SPKC1645	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	45	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	31.5	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	45	Volts
Maximum DC Forward Current @T∟=75°C(Note 1)	lo	16	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	300	Amps
Typical Thermal Resistance	R <sub>0JA</sub>	55	°C/W
	RθJL	17	-0/w
Operating Temperature Range	TJ	150	٥C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150	۰C

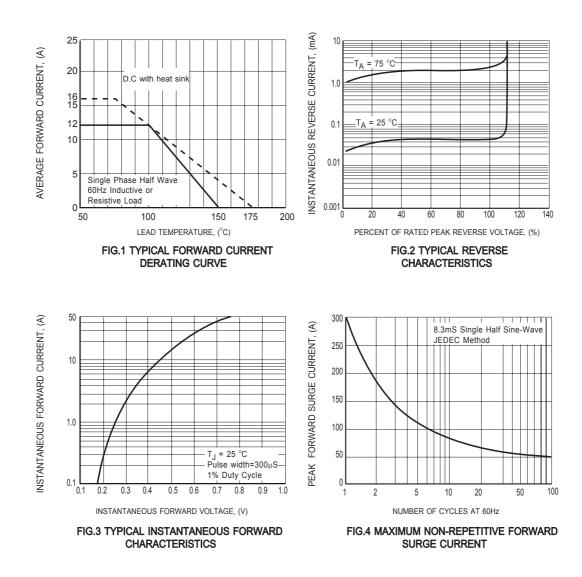
#### ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SPKC1645	UNITS
Maximum Instantaneous Forward Voltage at 16 A DC	@T <sub>A</sub> = 25°C	V <sub>F</sub>	.51	Volts
	@T <sub>A</sub> = 75°C		.47	
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	I <sub>R</sub> ·	100	uA
at Rated DC Blocking Voltage	@T <sub>A</sub> = 75°C		2.5	mA
NOTES: 1. Heat-sink mounted 10mm max from body				2009-04

ody

2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2009-04 REV: 0

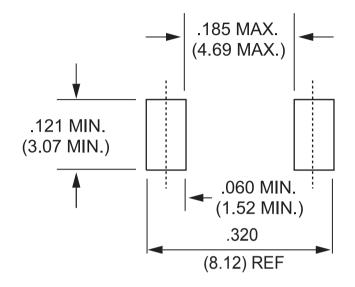


### RATING AND CHARACTERISTICS CURVES (SPKC1645)



# SOLDER PADS OUTLINE

Unit: inch ( mm )



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