

II. Schottky Rectifier

2.0A Schottky Rectifier SK220~SK2200

(Package: DO-41)

<p>FEATURES</p> <ul style="list-style-type: none"> The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Metal silicon junction, majority carrier conduction Low power loss, high efficiency High forward surge current capability High temperature soldering guaranteed <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case : JEDEC DO-41 molded plastic body Terminals : Plated axial leads, solderable per MIL-STD-202E, Method 208C guaranteed Polarity : Color band denotes cathode end Mounting Position : Any Weight : 0.33 grams, 0.012 ounce 	<p>Case: DO-41 Dimensions in inches and (millimeters)</p>
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Ratings & Electrical Characteristics

Characteristic	Symbol	SK 220	SK 230	SK 240	SK 250	SK 260	SK 280	SK 2100	SK 2150	SK 2200	Units				
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts				
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts				
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts				
Maximum average forward rectified current at derating lead temperature	I _O	2.0								Amps					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60								Amps					
Maximum instantaneous forward voltage at 2.0A DC	V _F	0.55		0.70		0.85		Volts							
Maximum average reverse current Ta = 25°C at rated DC blocking voltage	I _R	0.2								mA					
		2													
Typical thermal resistance (Note 1)	R _{th-JA}	45								°C/W					
	R _{th-JL}	15													
Typical junction capacitance (Note 2)	C _j	180								PF					
Operating junction temperature range	T _j	150								°C					
Storage temperature range	T _{stg}	-55 to +150								°C					

Notes:

- Thermal resistance : At 9.5mm lead lengths, PCB mounted.
- Measured at 1 MHz and applied reverse voltage of 4.0 volts.

Ratings and Characteristic Curves of SK220~SK2200

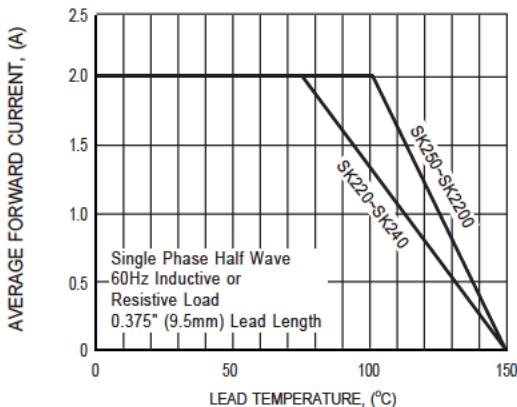


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

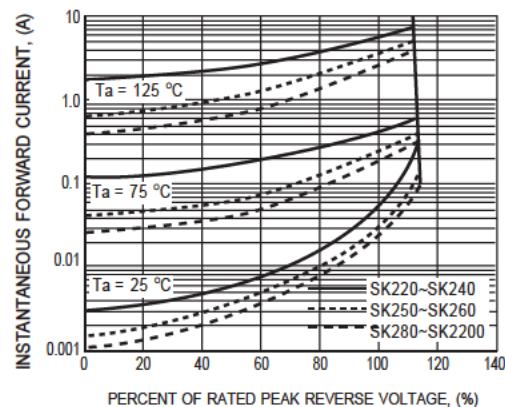


FIG.2 TYPICAL REVERSE CHARACTERISTICS

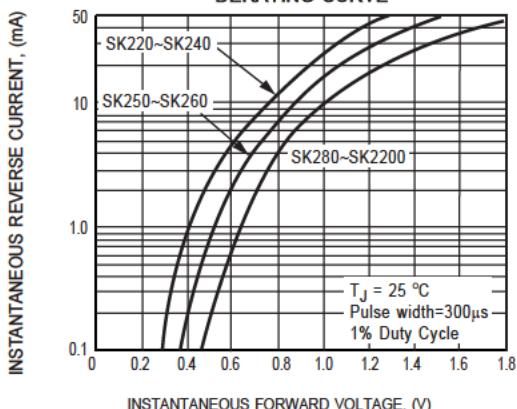


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

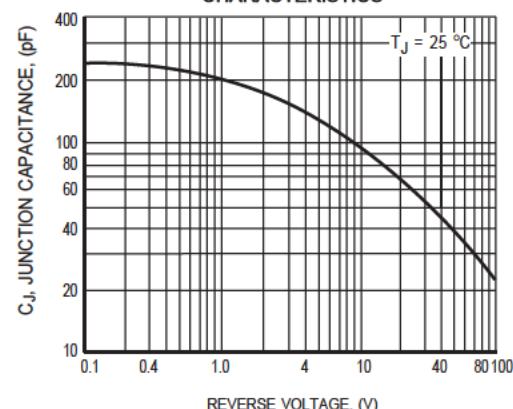


FIG.4 TYPICAL JUNCTION CAPACITANCE

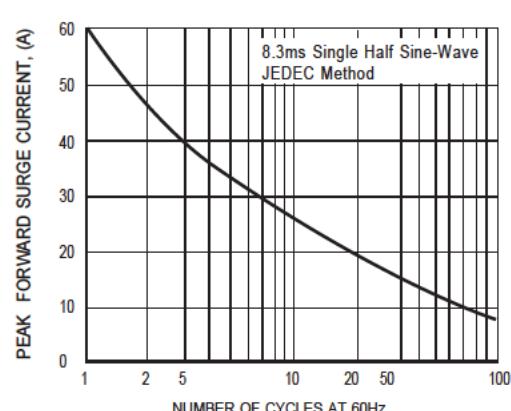


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT