

II. Schottky Rectifier

3.0A Schottky Rectifier

SK320~SK3200

(Package: DO-15)

<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-15 molded plastic body Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity : Color band denotes cathode end Mounting Position : Any Weight : 0.40 grams, 0.014 ounce 	<p>Case: DO-15 Dimensions in inches and (millimeters)</p>
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Ratings & Electrical Characteristics

Characteristic	Symbol	SK 320	SK 330	SK 340	SK 350	SK 360	SK 380	SK 3100	SK 3150	SK 3200	Units					
Maximum repetitive 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 0.375" (9.5mm) lead length	I _O	3									Amps					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80									Amps					
Maximum forward voltage at 3.0A DC	V _F	0.55		0.70		0.85		0.90		0.95	Volts					
Maximum reverse current at rated DC blocking voltage	I _R	0.5														
		20		10												
Typical junction capacitance (Note 1)	C _j	250									PF					
Typical thermal resistance (Note 2)	R _{th-JA}	40									°C/W					
Operating junction temperature range	T _j	-55 to +125			-55 to +150			°C								
Storage temperature range	T _{tsg}	-55 to +150									°C					

Notes:

1. Measured at 1 MHz and applied reverse voltage of 4.0 volts DC.

2. Thermal resistance from junction to lead vertical PCB mounted, 0.5" (12.7mm) lead length.

Ratings and Characteristic Curves of SK320~SK3200

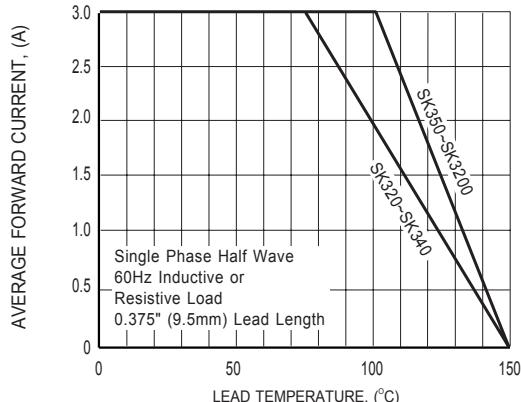


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

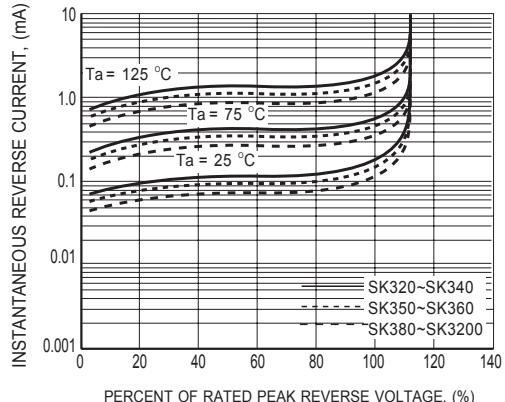


FIG.2 TYPICAL REVERSE CHARACTERISTICS

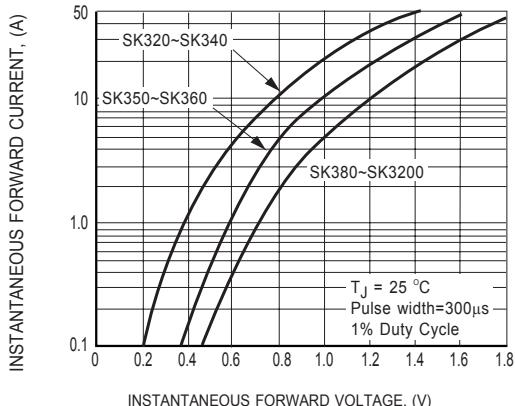


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

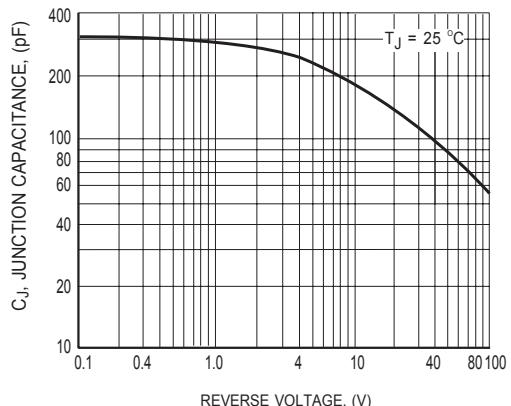


FIG.4 TYPICAL JUNCTION CAPACITANCE

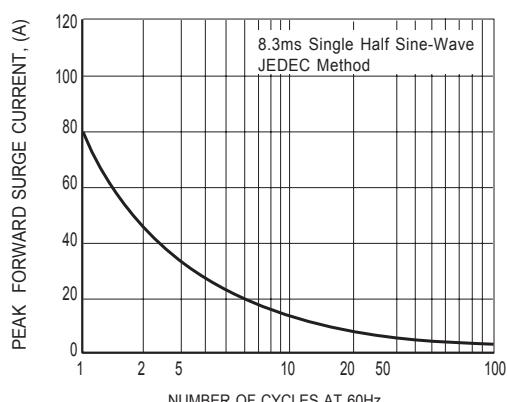


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT