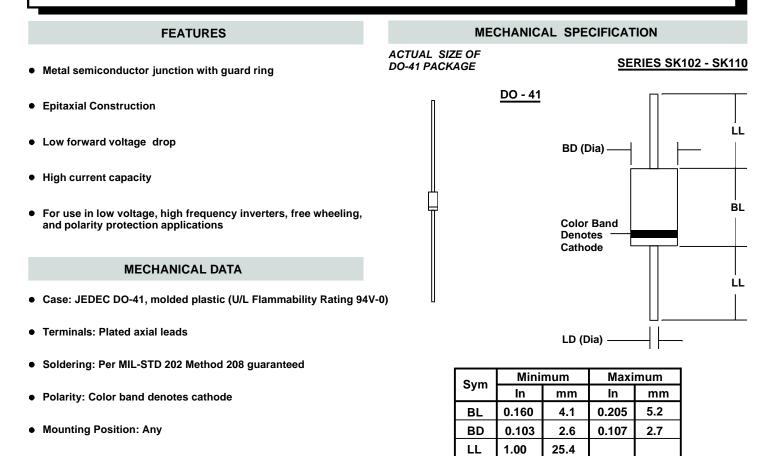


1 AMP SCHOTTKY BARRIER RECTIFIERS



• Weight: 0.012 Ounces (0.34 Grams)

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

LD

0.028

0.034

0.71

0.86

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

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS					UNITS		
Series Number		SK102	SK104	SK106	SK107	SK108	SK110		
Maximum DC Blocking Voltage	Vrm	20	40	60	70	80	100		
Maximum RMS Voltage	VRMS	14	28	42	49	56	70	VOLTS	
Maximum Peak Recurrent Reverse Voltage	Vrrm	20	40	60	70	80	100		
Average Forward Rectified Current @ $T_L = 90^{\circ}C$ (T_L measured on cathode lead, 1/32 in. from case)	lo	1						AMPS	
Peak Forward Surge Current (8.3mS single half sine wave superimposed on rated load)	IFSM	40							
Maximum Forward Voltage at 1 Amp DC	Vfm	0.5		0).7 0		.8	VOLTS	
Maximum Average DC Reverse Current@ TL = 25 °CAt Rated DC Blocking Voltage (Note 1)@ TL = 100°C	IRM	0.5 0.1 10 5				mA			
Typical Thermal Resistance, Junction to Ambient	Reja	15					°C/W		
Typical Junction Capacitance (Note 2)	CJ	110						pF	
Junction Operating Temperature Range	TJ	-65 to +125 -65 to +150				°C			
Storage Temperature Range	Тѕтс	-65 to +150							

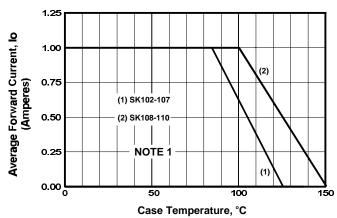
NOTES: (1) Lead temperature reference is cathode lead 1/32 in from case.

(2) Measured at 1MHz & applied reverse voltage of 4 volts

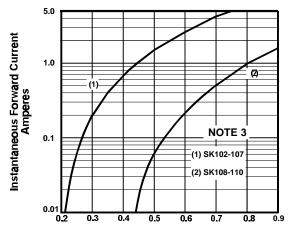


1 AMP SCHOTTKY BARRIER RECTIFIERS

RATING & CHARACTERISTIC CURVES FOR SERIES SK102 - SK107 and SERIES SK108 - SK110







Instantaneous Forward Voltage (Volts) FIGURE 3. TYPICAL FORWARD CHARACTERISTICS

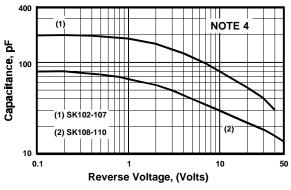


FIGURE 5. TYPICAL JUNCTION CAPACITANCE

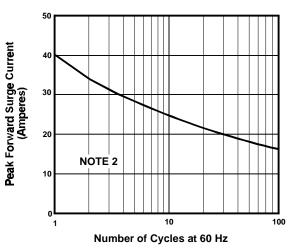
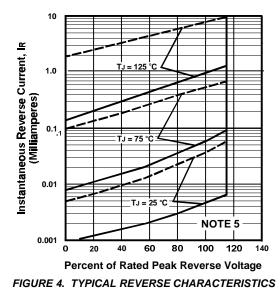


FIGURE 2. MAXIMUM NON-REPETITIVE SURGE CURRENT



NOTES

- (1) Single Phase, Half Wave, 60 Hz, Resistive or Inductive Load, 0.375" (9mm) Lead Length
- (2) JEDEC Method, 8.3 mSec. Single Half Sine Wave, Tc = 95 °C
- (3) TJ = 25 °C, Pulse Width = 300 μ Sec, 2.0% Duty Cycle
- (4) TJ = 25 °C, f = 1MHz, Vsig = 50 mV P-P
- (5) Legend for Figure 4, Typical Reverse Characteristics:

----- SK102-107

_____ SK108-110