



1.0 Amp SCHOTTKY BARRIER RECTIFIERS

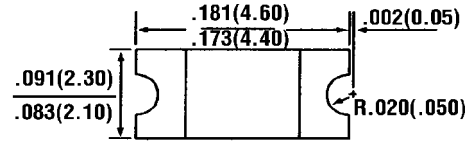
SCD12...16 Series

Description

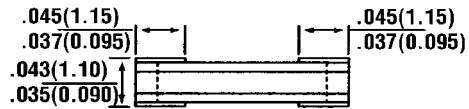


PACKAGE 2010

Mechanical Dimensions



Dimensions in inches and (mm)



Features

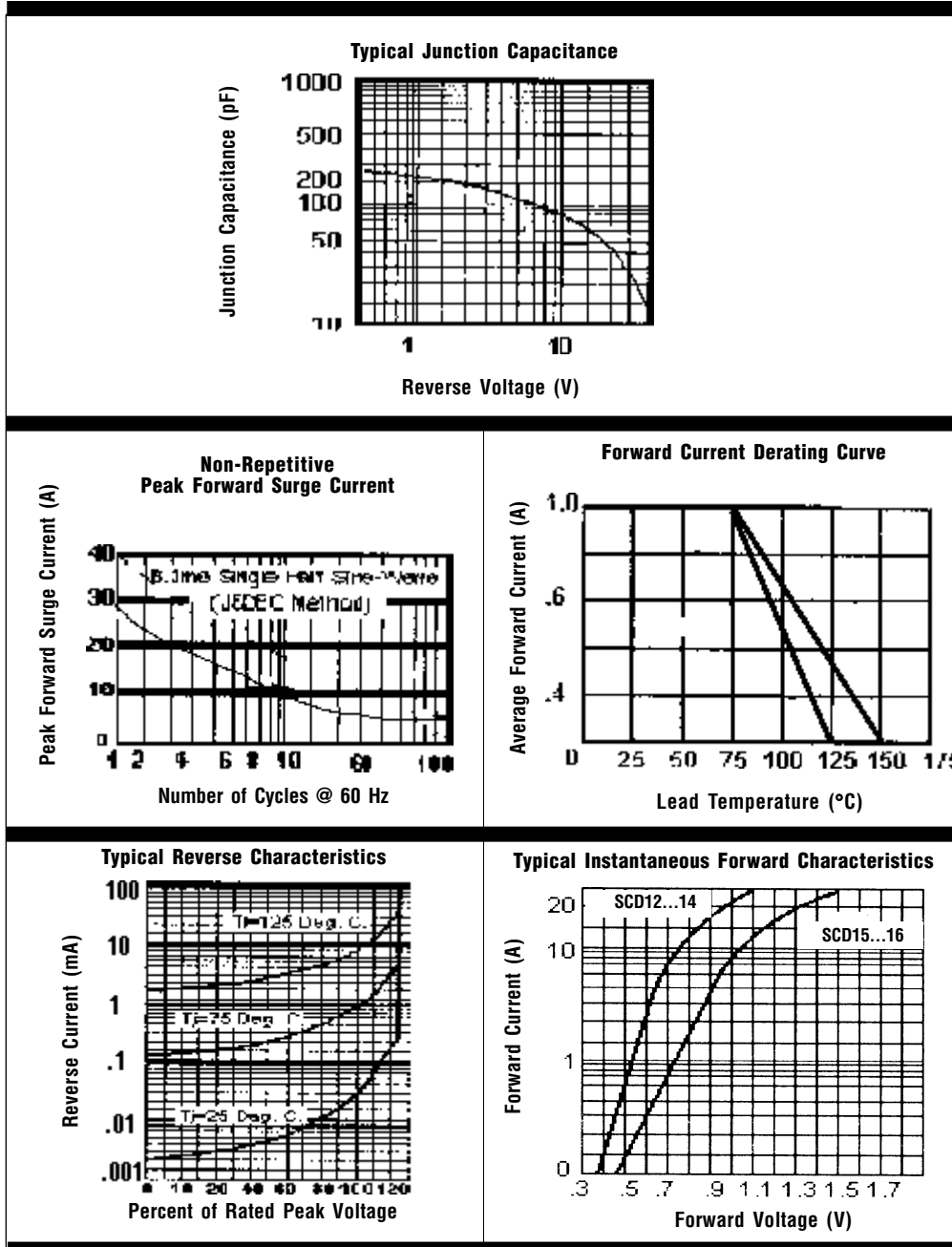
- EXTREMELY LOW V_F
- LOW PROFILE PACKAGE
- LOW POWER LOSS - HIGH EFFICIENCY
- MAJORITY CARRIER CONDUCTION
- MEETS UL SPECIFICATION 94V-0
- HIGH TEMPERATURE SOLDERING
260 C/10 SECONDS

SCD12 . . . 16 Series						Units	
Maximum Ratings	SCD12	SCD13	SCD14	SCD15	SCD16		
Peak Repetitive Reverse Voltage... V_{RRM}	20	30	40	50	60	Volts	
Working Peak Reverse Voltage... V_{RWM}	20	30	40	50	60	Volts	
DC Blocking Voltage... V_{DC}	20	30	40	50	60	Volts	
RMS Reverse Voltage... $V_{R(rms)}$	14	21	28	35	42	Volts	
Average Forward Rectified Current @ $T_A=75^\circ\text{C}$... $I_{F(av)}$	1.0					Amps	
Non-Repetitive Peak Forward Surge Current... I_{FSM}	30					Amps	
Operating Temperature Range... T_J	-55 to +125		-55 to +150			$^\circ\text{C}$	
Operating Temperature Range... T_{STRG}	-55 to +150 $^\circ$					$^\circ\text{C}$	
Electrical Characteristics							
Maximum Forward Voltage... V_F (Note 1)	.45	.50	.55	.70	.70	Volts	
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage						$T_C = 25^\circ\text{C}$	mAmps
						$T_C = 100^\circ\text{C}$	10
Typical Thermal Resistance... $R_{\theta JA}$	88					$^\circ\text{C} / \text{W}$	
Typical Thermal Resistance... $R_{\theta JL}$	28					$^\circ\text{C} / \text{W}$	



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NOTES: 1. Pulse Test: Pulse width = 300 μs. DutyCycle = 2%.

Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.