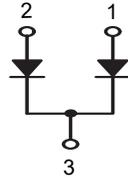
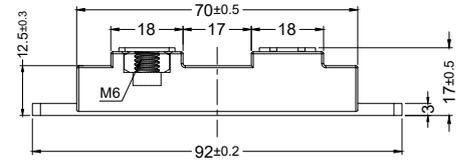


SRBD400100CTD3 thru SRBD400200CTD3

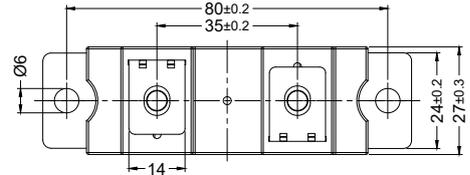
Schottky Barrier Rectifier Diode Modules



Dimensions in mm



	V_{RSM} V	V_{RRM} V
SRBD400100CTD3	100	100
SRBD400150CTD3	150	150
SRBD400200CTD3	200	200



Symbol	Test Conditions		Characteristic Values			Unit	
V_{RRM}	Peak Repetitive Reverse Voltage		100, 150, 200			V	
V_{RWM}	Working Peak Reverse Voltage						
V_R	DC Blocking Voltage						
I_O	Average Rectified Forward Current (Rated V_R)	$T_C = 115^\circ\text{C}$	Per Leg	200	Per Package	400	A
I_{FRM}	Peak Rectified Forward Current, Per Leg (Rated V_R , Square Wave, 20 kHz), $T_C = 125^\circ\text{C}$			200			A
I_{FSM}	Non-repetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)		Per Package	2800			A
T_C T_{stg}	Storage/Operating Temperature			-55...+175		°C	
T_J	Operating Junction Temperature						
R_{tjc}	Thermal Resistance, Junction to Case		Per Leg	0.20		°C/W	
V_F	Maximum Instantaneous Forward Voltage Per Leg ($I_F=200\text{A}$)		$T_J=25^\circ\text{C}$	400100	400150	400200	V
				0.85	0.90	0.95	
V_F	Maximum Instantaneous Forward Voltage Per Leg ($I_F=200\text{A}$)		$T_J=125^\circ\text{C}$	400100	400150	400200	V
				0.75	0.80	0.85	
I_R	Maximum Instantaneous Reverse Current ($V_R=V_{RRM}$)		$T_J=25^\circ\text{C}$	$T_J=100^\circ\text{C}$		mA	
			30	80			
C_j	Typical Junction Capacitance			Measured at 1MHz, $V_r=4\text{V}$		pF	
				290			
I_{RM}	Typical Peak Reverse Recovery Current ($I_F=1.0\text{A}$, $di/dt=50\text{A}/\mu\text{s}$)		Per Leg	2		A	
Weight				93		g	

Sirectifier®

SRBD400100CTD3 thru SRBD400200CTD3

Schottky Barrier Rectifier Diode Modules

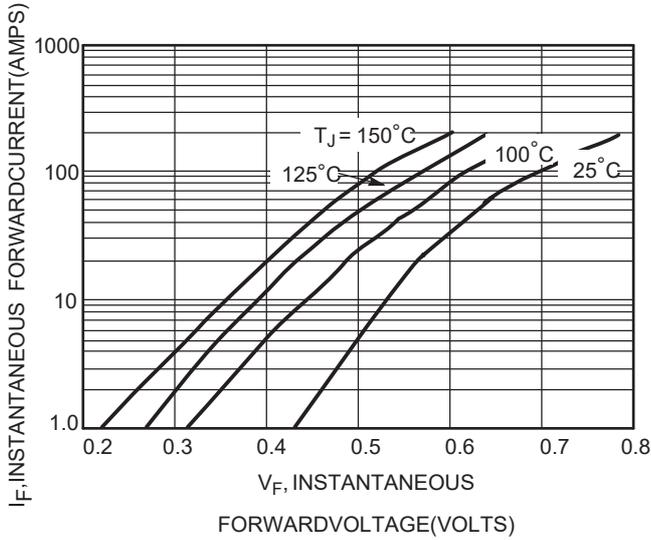


Figure 1. Typical Forward Voltage

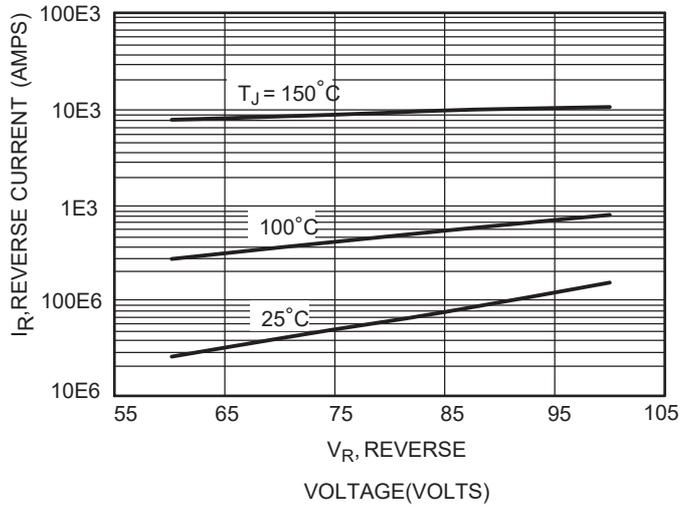


Figure 2. Typical Reverse Current

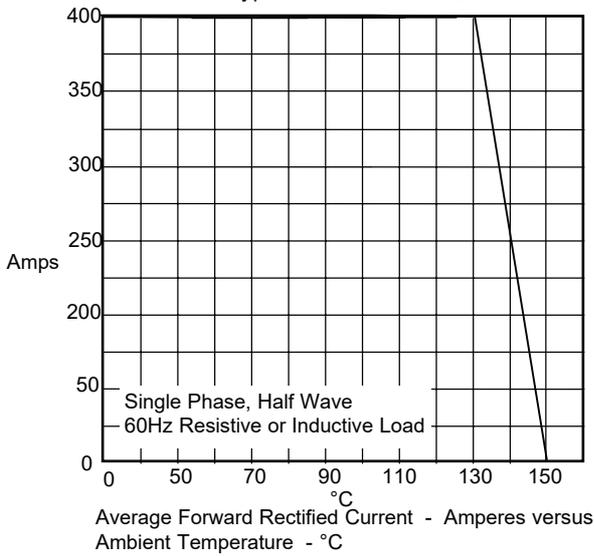


Figure 3 Forward Derating Curve

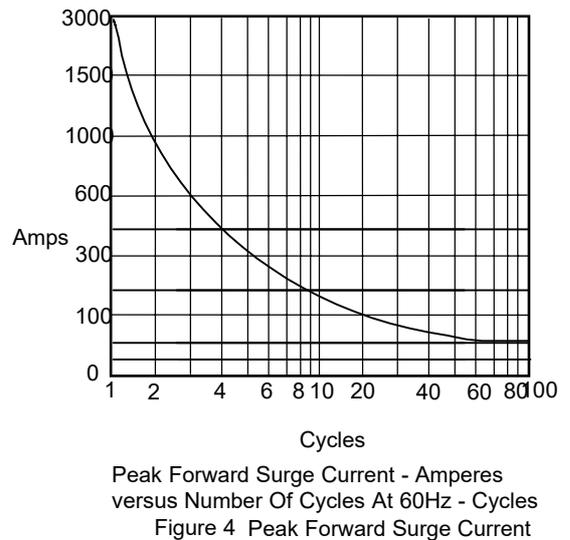


Figure 4 Peak Forward Surge Current

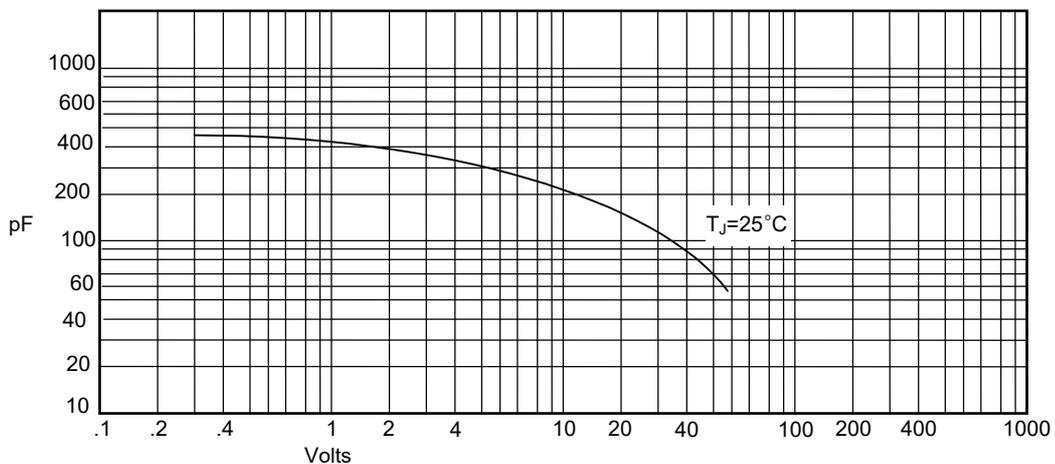


Figure 5: Junction Capacitance

Junction Capacitance - pF versus Reverse Voltage - Volts

