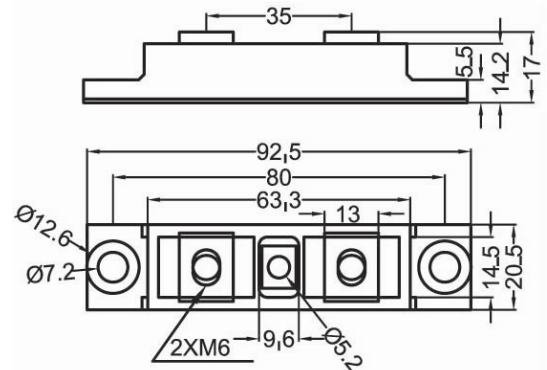


SRBD400100CT thru SRBD400200CT

Schottky Barrier Rectifier Diode Modules



Dimensions in mm



	V_{RSM}	V_{RRM}
	V	V
SRBD400100CT	100	100
SRBD400150CT	150	150
SRBD400200CT	200	200

Symbol	Test Conditions		Characteristic Values			Unit
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		100, 150, 200			V
I _O	Average Rectified Forward Current (Rated V _R) T _C = 115°C	Per Leg Per Package	200 400			A
I _{FRM}	Peak Rectified Forward Current, Per Leg (Rated V _R , Square Wave, 20 kHz), T _C = 125°C		200			A
I _{FSM}	Non-repetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)		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 (IF=200A)	T _J =25 °C	400100	400150	400200	V
			0.85	0.90	0.95	
	Maximum Instantaneous Forward Voltage Per Leg (IF=200A)	T _J =125 °C	400100	400150	400200	
			0.75	0.80	0.85	
I _R	Maximum Instantaneous Reverse Current (V _R =V _{RRM})		T _J =25 °C T _J =100 °C		mA	
			30 80			
C _j	Typical Junction Capacitance		Measured at 1MHz, Vr=4V 290			pF
I _{RM}	Typical Peak Reverse Recovery Current (IF=1.0A, di/dt=50A/us) T _J =25°C	Per Leg	2			A
Weight			80			g



SRBD400100CT thru SRBD400200CT

Schottky Barrier Rectifier Diode Modules

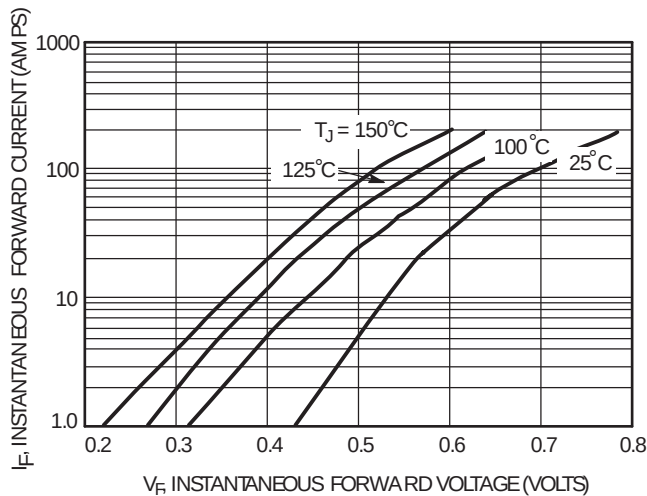


Figure 1. Typical Forward Voltage

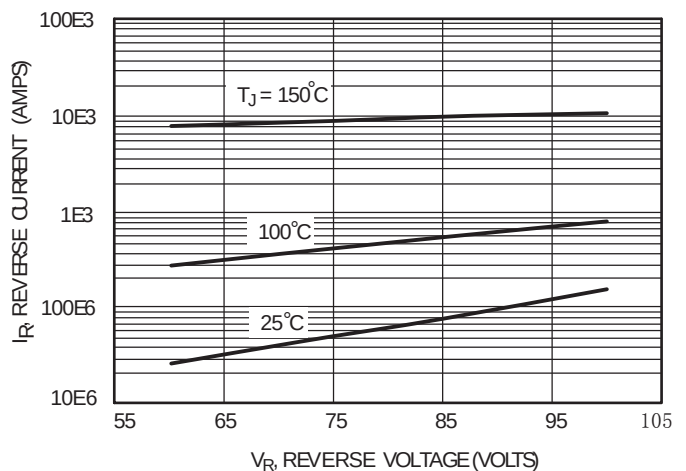


Figure 2. Typical Reverse Current

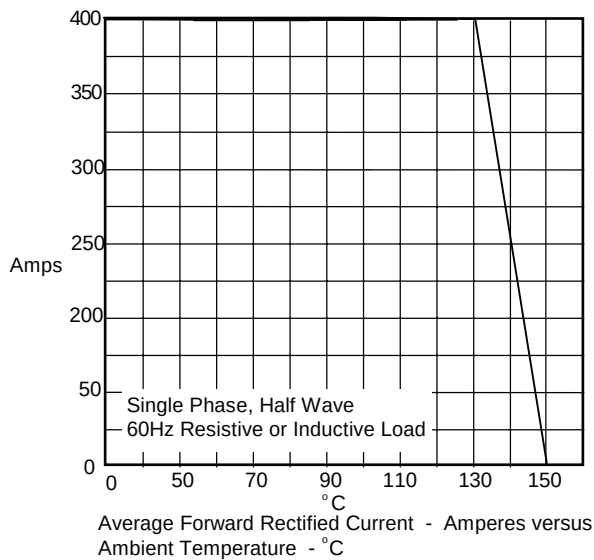


Figure 3 Forward Derating Curve

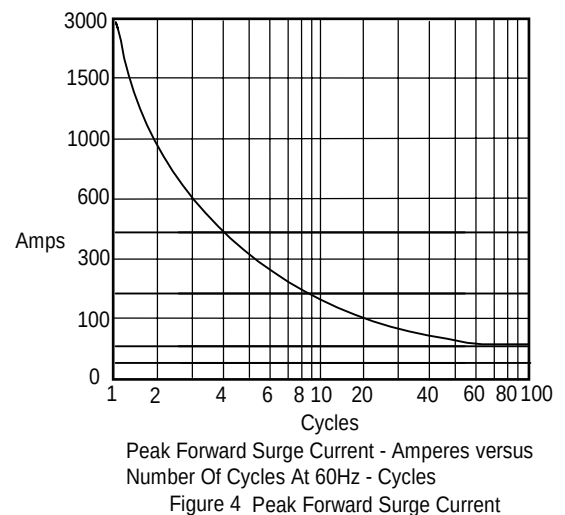


Figure 4 Peak Forward Surge Current

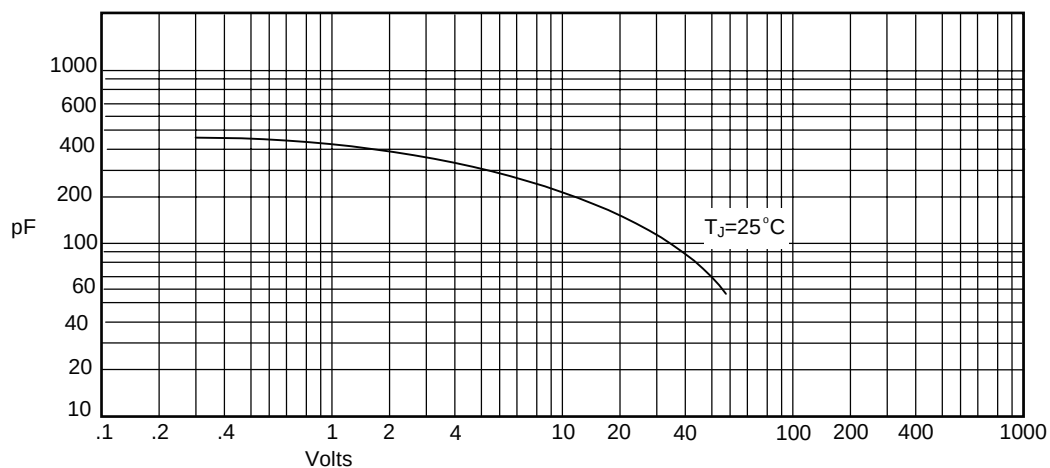


Figure 5
Junction Capacitance

Junction Capacitance - pF versus
Reverse Voltage - Volts