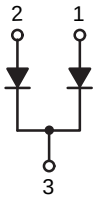
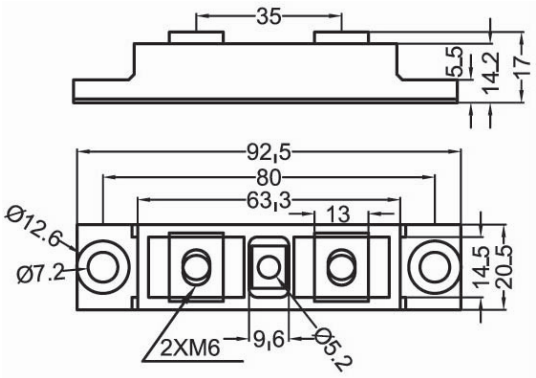
SRBD400100CT thru SRBD400200CT

Schottky Barrier Rectifier Diode Modules



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

Dimensions in mm



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℃	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℃		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			℃/W
V_F	Maximum Instantaneous Forward Voltage Per Leg (IF=200A)	T_J=25 °C	400100 0.85	400150 0.90	400200 0.95	V
	Maximum Instantaneous Forward Voltage Per Leg (IF=200A)	T_J=125 °C	400100 0.75	400150 0.80	400200 0.85	
I_R	MaximumInstantaneous Reverse Current (V_R=VRRM)		T_J=25 °C 30		T_J=100 °C 80	mA
Cj	Typical Junction Capacitance		Measured at 1MHz,Vr=4V 290			pF
I_{RM}	Typical Peak Reverse Recovery Current (IF=1.0A,di/dt=50A/us) Tj=25℃	Per Leg	2			A
Weight			80			g

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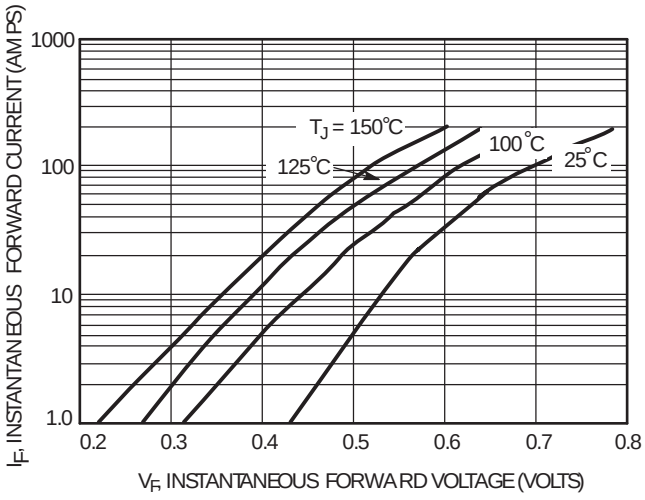


Figure 1. Typical Forward Voltage

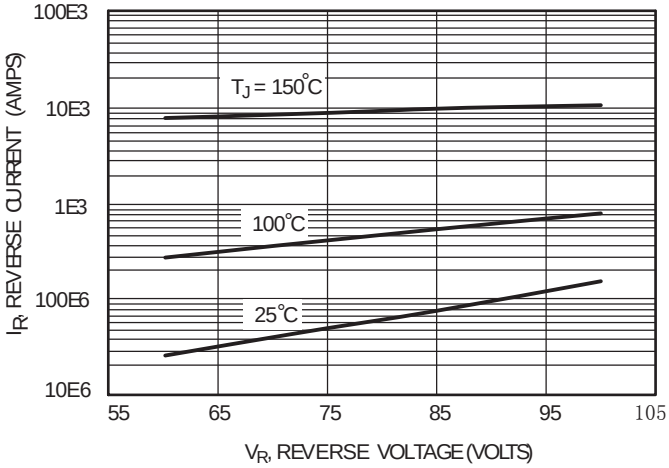
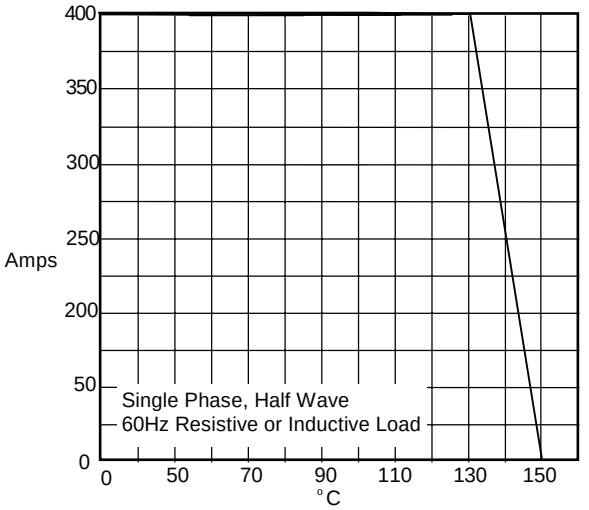
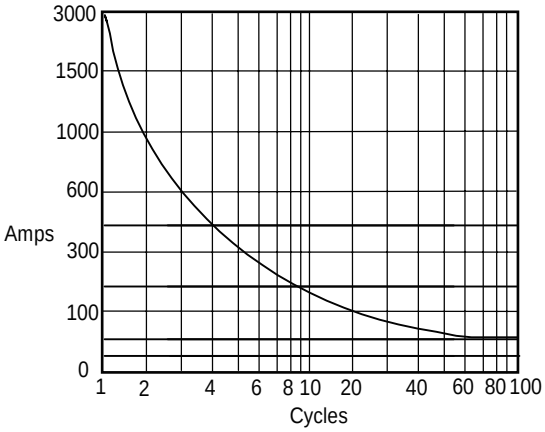


Figure 2. Typical Reverse Current



Average Forward Rectified Current - Amperes versus Ambient Temperature - °C

Figure 3 Forward Derating Curve



Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

Figure 4 Peak Forward Surge Current

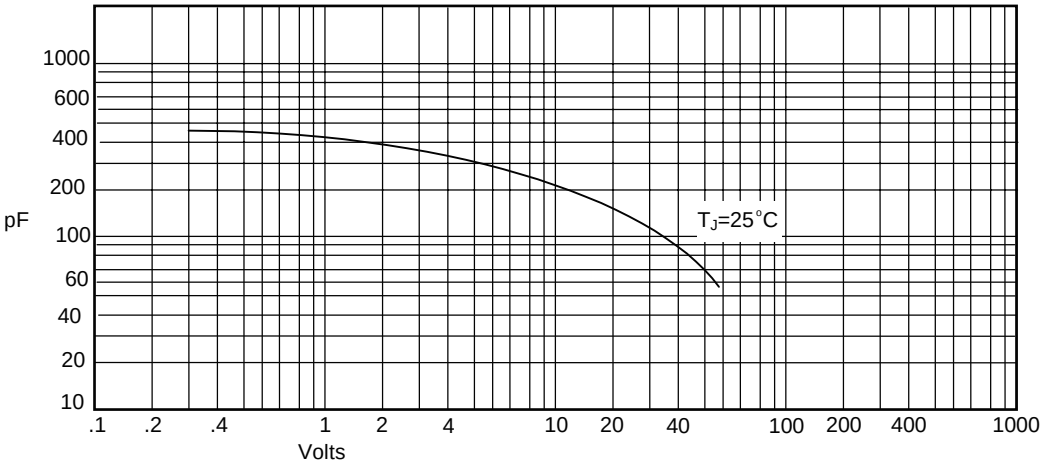


Figure 5
Junction Capacitance

Junction Capacitance - pF versus Reverse Voltage - Volts

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