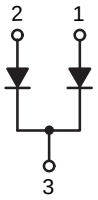
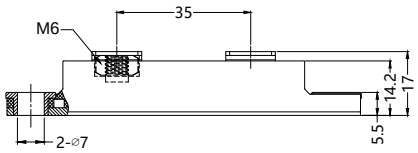
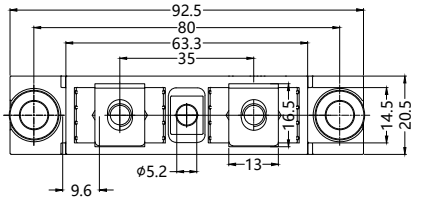
SRBD300100CT thru SRBD300200CT

Schottky Barrier Rectifier Diode Modules



Dimensions in mm





	V_{RSM} V	V_{RRM} V
SRBD300100CT	100	100
SRBD300150CT	150	150
SRBD300200CT	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	150 300			A
I_{FRM}	Peak Rectified Forward Current, Per Leg (Rated V_R, Square Wave,20 kHz), T_C = 125°C		150			A
I_{FSM}	Non-repetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	Per Package	2100			A
T_C T_{stg}	Storage/Operating Temperature		-55...+150			°C
T_J	Operating Junction Temperature					
R_{thjc}	Thermal Resistance, JunctiontoCase	Per Leg	0.45			°C/W
V_F	Maximum Instantaneous Forward Voltage Per Leg (I_F=200A)	T_J=25°C	300100 0.89	300150 0.95	300200 0.99	V
	Maximum Instantaneous Forward Voltage Per Leg (I_F=200A)	T_J=125°C	300100 0.79	300150 0.85	300200 0.89	
I_R	MaximumInstantaneous Reverse Current (V_R=V_{RRM})		T_J=25°C 3	T_J=100°C 60		mA
Cj	Typical Junction Capacitance		Measured at 1MHz,Vr=4V 210			pF
I_{RM}	Typical Peak Reverse Recovery Current (I_F=1.0A,di/dt=50A/us)	Per Leg T_j=25°C	2			A
Weight			80			g

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SRBD300100CT thru SRBD300200CT

Schottky Barrier Rectifier Diode Modules

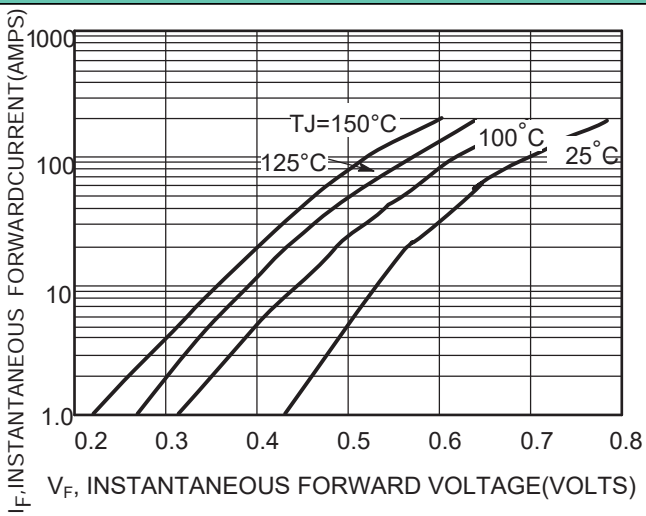


Figure 1.Typical Forward Voltage

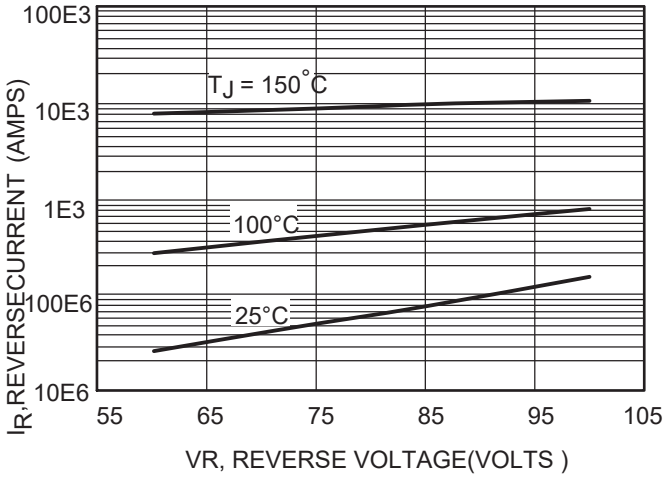
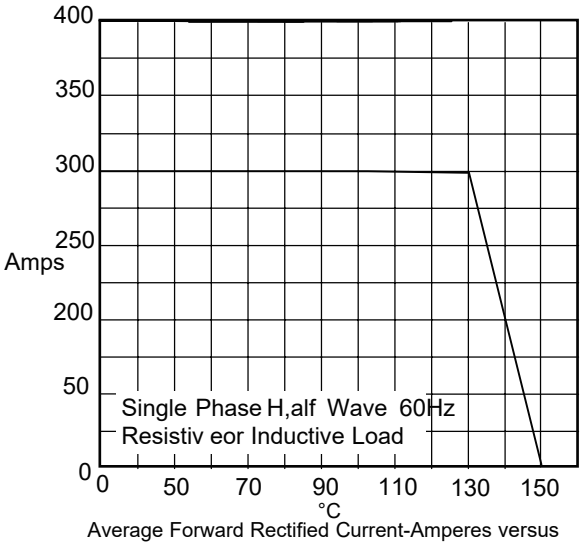
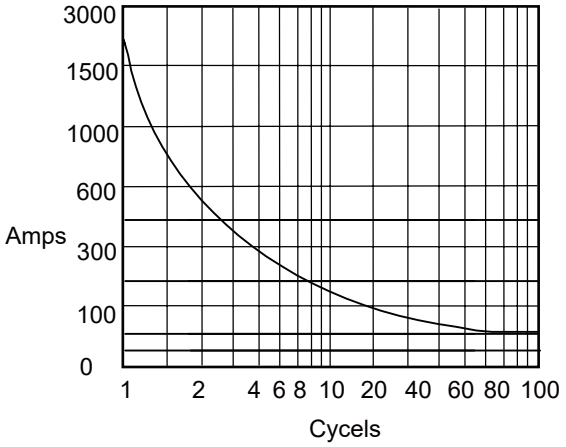


Figure 2. Typical Revers e Current



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

Figure 3 Forward Derating Curve



Peak Forward Surge Current - Amperes versus Number Cycles At 60HZ-Cycels

Figure 4 Peak Forward Surge Current

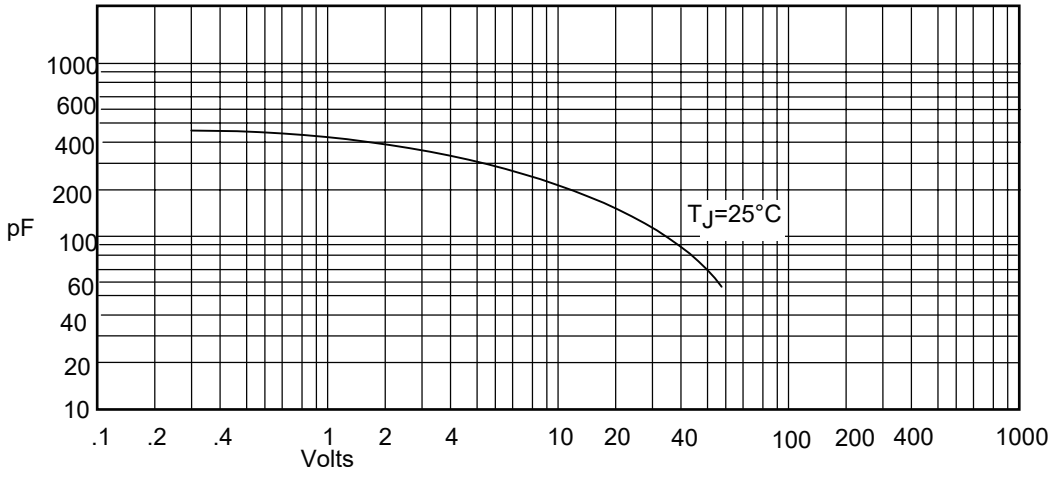


Figure 5 Junction Capacitance

Junction Capacitance pF versus Reverse Voltage- Volts

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