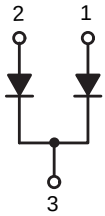
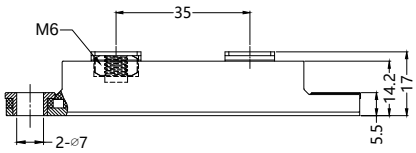
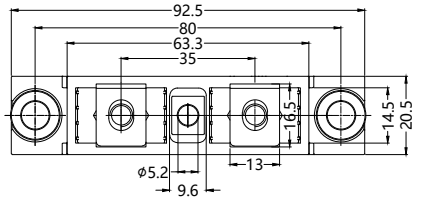
SRBD200XXCT

Schottky Barrier Rectifier Diode Modules



Dimensions in mm (1mm=0.0394")





	V_{RSM} V	V_{RRM} V
SRBD200100CT	100	100
SRBD200150CT	150	150
SRBD200200CT	200	200

RoHS Compliant

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	100 200	A
I_{FRM}	Peak Rectified Forward Current, Per Leg (Rated V_R, Square Wave,20 kHz),T_C=125°C	100	A
I_{FSM}	Non-repetitive Peak Surge Current — Per Package (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	1600	A
T_C T_{stg}	Storage/Operating Temperature	-55...+150	°C
T_J	Operating Junction Temperature		
R_{tjc}	Thermal Resistance, JunctiontoCase — Per Leg	0.45	°C/W
V_F	Maximum Instantaneous Forward Voltage — Per Leg (I_F=100A)	T_J=25°C: 0.84; T_J=125°C: 0.75	V
I_R	MaximumInstantaneous Reverse Current (V_R=VRRM)	T_J=25°C: 3; T_J=100°C: 60	mA
Cj	Typical Junction Capacitance	Measured at 1MHz,Vr=4V 160	pF
I_{RM}	Typical Peak Reverse Recovery Current — Per Leg (I_F=1.0A,di/dt=50A/us)		
Weight		70	g

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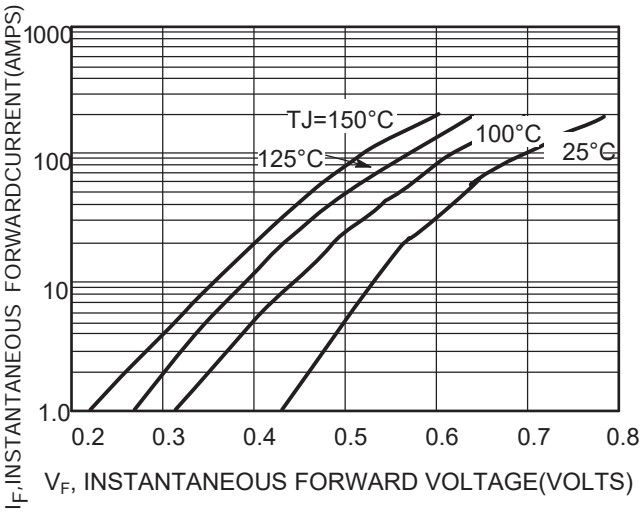


Figure 1.Typical Forward Voltage

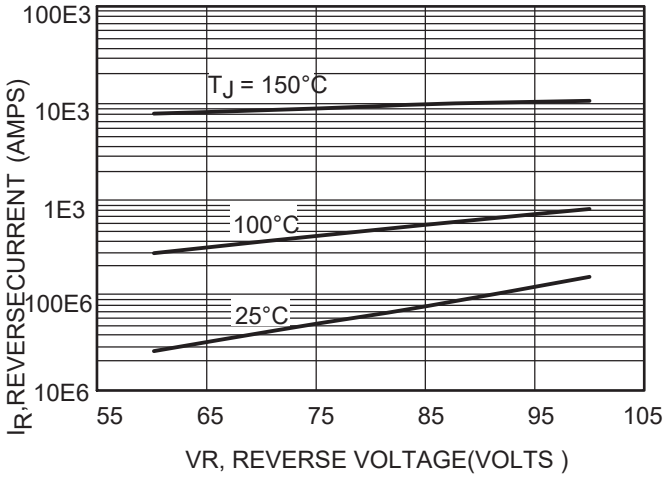
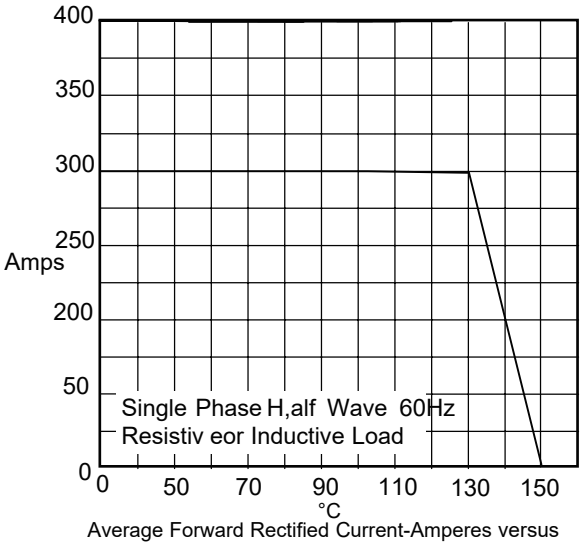
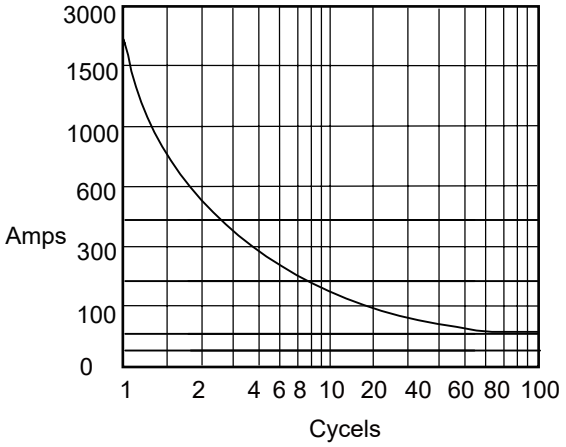


Figure 2. Typical Revers e Current



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

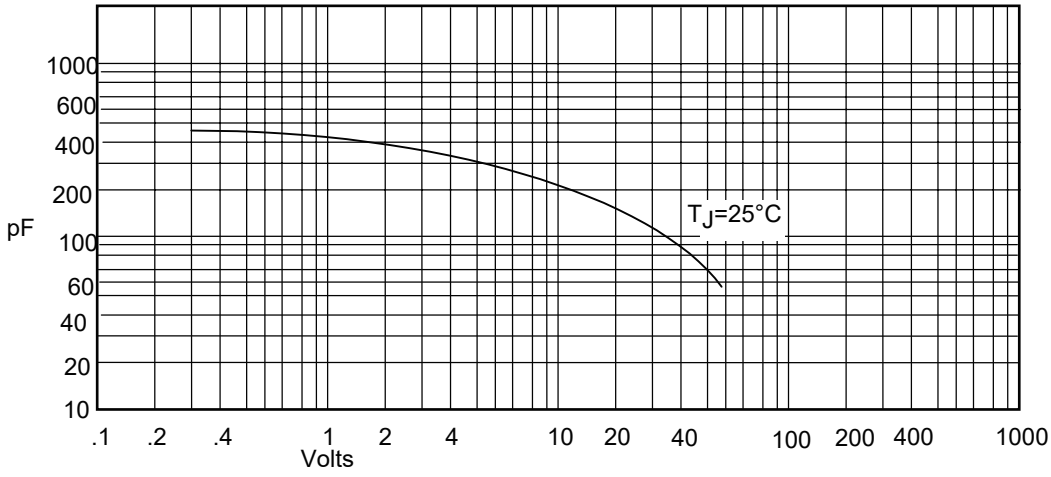


Figure 5 Junction Capacitance

Junction Capacitance pF versus Reverse Voltage- Volts

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