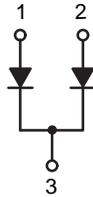
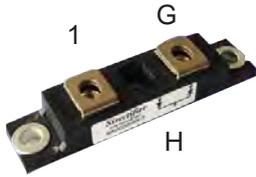
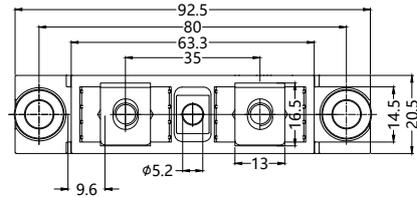
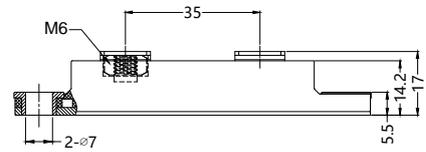


SRBD400100CT thru SRBD400200CT

Schottky Barrier Rectifier Diode Modules



Dimensions in mm



	V_{RSM} V	V_{RRM} 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) $T_C = 115^\circ\text{C}$	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	$^\circ\text{C}$
T_J	Operating Junction Temperature		
R_{tjc}	Thermal Resistance, Junction to Case	Per Leg: 0.20	$^\circ\text{C}/\text{W}$
V_F	Maximum Instantaneous Forward Voltage Per Leg ($I_F = 200\text{A}$)	$T_J = 25^\circ\text{C}$ 400100: 0.85 400150: 0.90 400200: 0.95	V
	Maximum Instantaneous Forward Voltage Per Leg ($I_F = 200\text{A}$)	$T_J = 125^\circ\text{C}$ 400100: 0.75 400150: 0.80 400200: 0.85	
I_R	Maximum Instantaneous Reverse Current ($V_R = V_{RRM}$)	$T_J = 25^\circ\text{C}$: 30	mA
		$T_J = 100^\circ\text{C}$: 80	
C_j	Typical Junction Capacitance	Measured at 1MHz, $V_r = 4\text{V}$ 290	pF
I_{RM}	Typical Peak Reverse Recovery Current ($I_F = 1.0\text{A}$, $di/dt = 50\text{A}/\mu\text{s}$) $T_J = 25^\circ\text{C}$	Per Leg: 2	A
Weight		80	g

SRBD400100CT thru SRBD400200CT

Schottky Barrier Rectifier Diode Modules

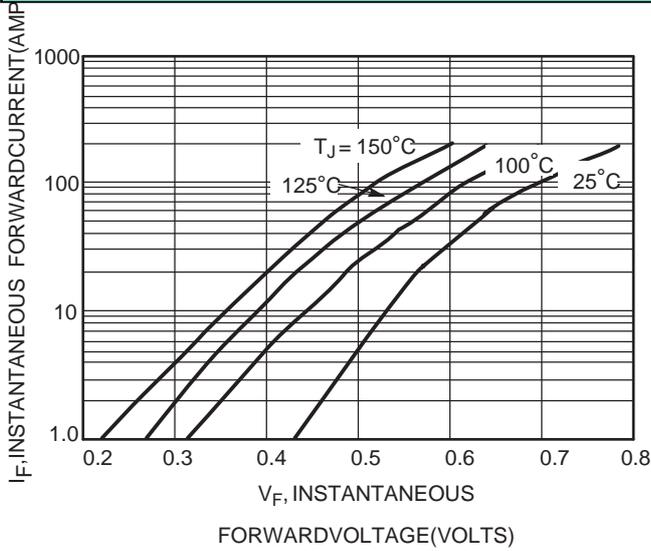


Figure 1. Typical Forward Voltage

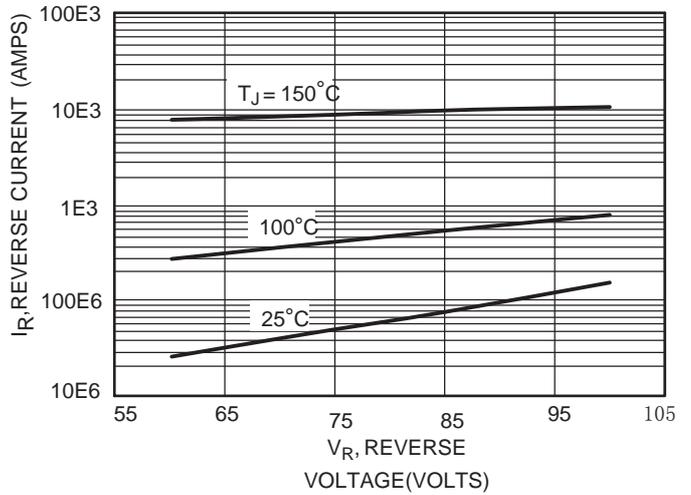


Figure 2. Typical Reverse Current

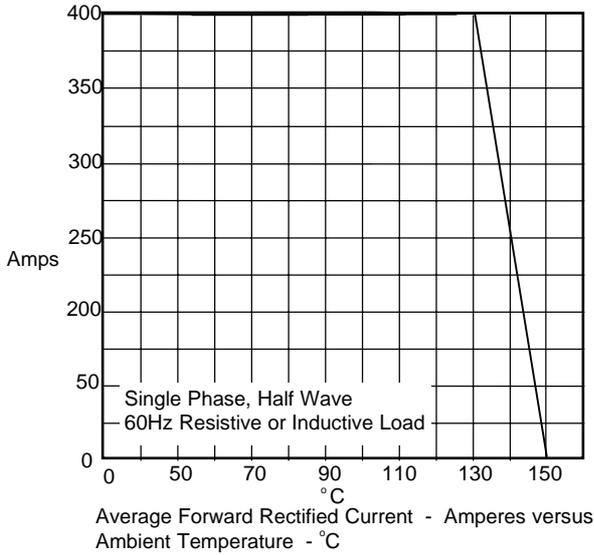


Figure 3 Forward Derating Curve

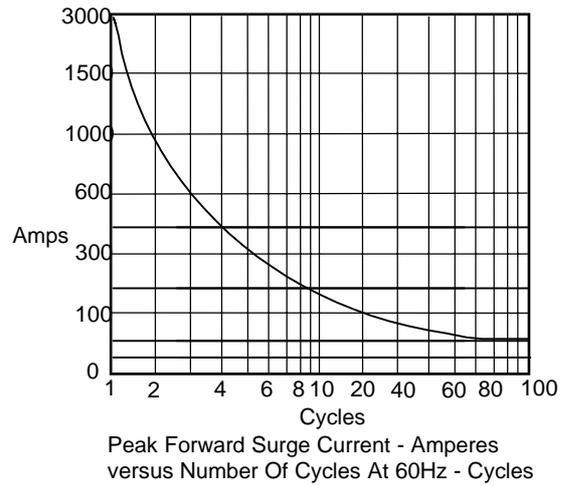


Figure 4 Peak Forward Surge Current

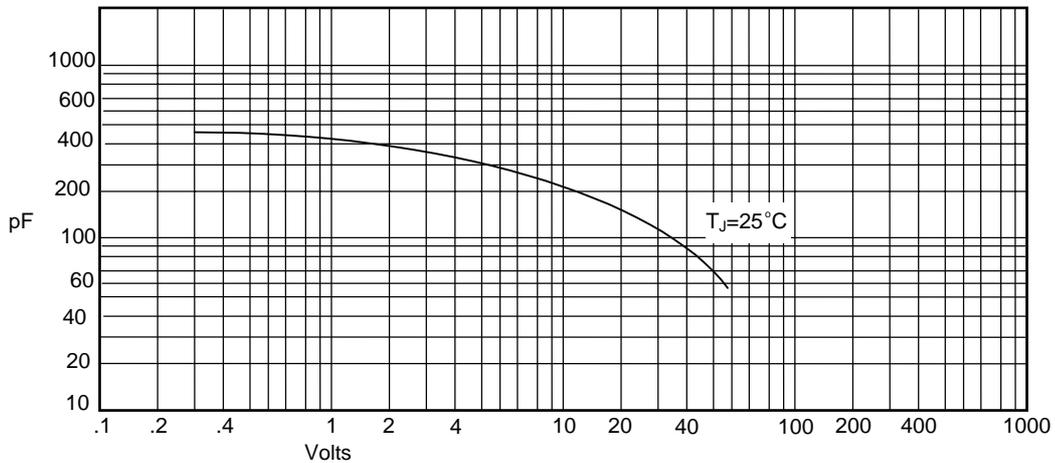


Figure 5 Junction Capacitance - pF versus Reverse Voltage - Volts

