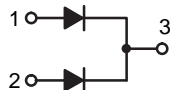
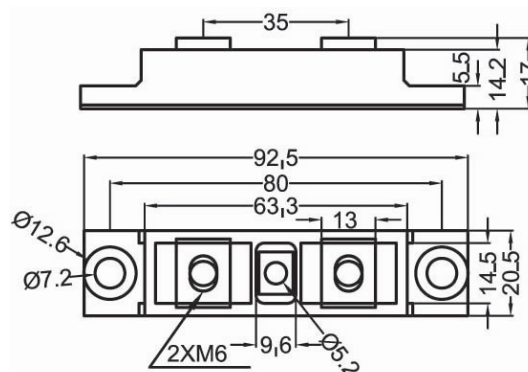


SRBD40035CT thru SRBD40060CT

Schottky Barrier Rectifier Diode Modules



Dimensions in mm



	V_{RSM} V	V_{RRM} V
SRBD40035CT	35	35
SRBD40040CT	40	40
SRBD40045CT	45	45
SRBD40060CT	60	60

Symbol	Test Conditions	Characteristic Values	Unit
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	35, 40, 45, 60	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: 3450	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 ($I_F=200\text{A}$)	$T_J=25^\circ\text{C}$	V
	Maximum Instantaneous Forward Voltage Per Leg ($I_F=200\text{A}$)	$T_J=125^\circ\text{C}$	
I_R	Maximum Instantaneous Reverse Current ($V_R=V_{RRM}$)	$T_J=25^\circ\text{C}$	mA
		$T_J=100^\circ\text{C}$	
C_j	Typical Junction Capacitance	Measured at 1MHz, $V_r=4\text{V}$	pF
		290	
I_{RM}	Typical Peak Reverse Recovery Current ($I_F=1.0\text{A}$, $di/dt=50\text{A}/\mu\text{s}$)	$T_J=25^\circ\text{C}$	A
		± 2.0	
Weight		80	g

Sirectifier[®]

SRBD40035CT thru SRBD40060CT

Schottky Barrier Rectifier Diode Modules

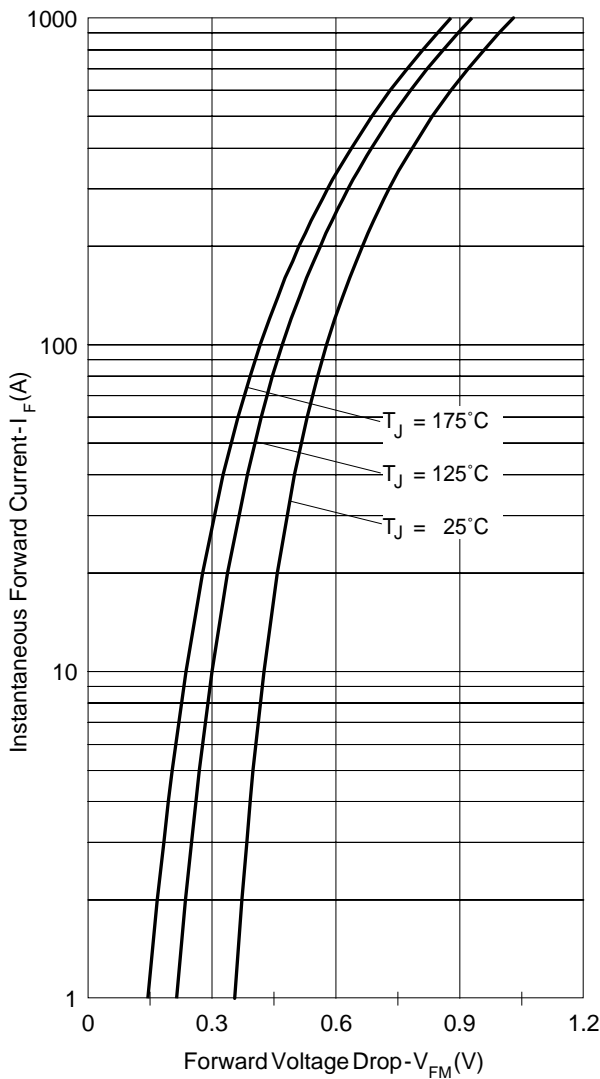


Fig. 1 - Max. Forward Voltage Drop Characteristics

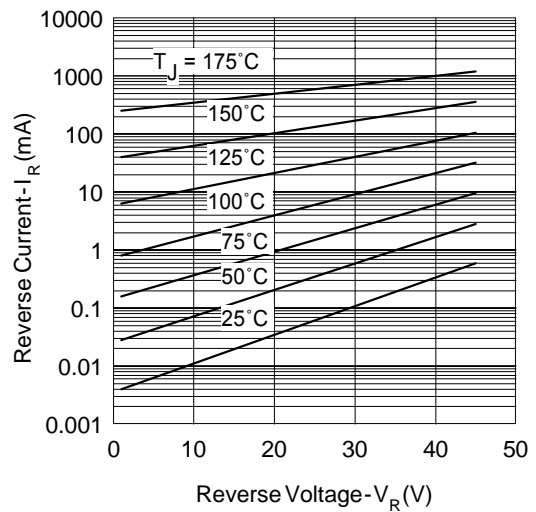


Fig. 2 - Typical Values Of Reverse Current Vs. Reverse Voltage

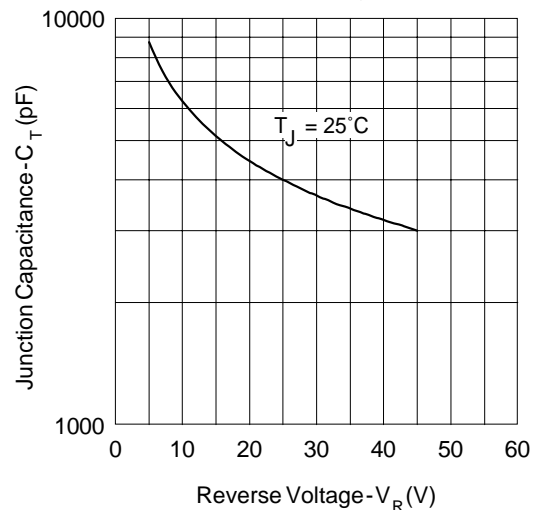


Fig. 3 - Typical Junction Capacitance Vs. Reverse Voltage

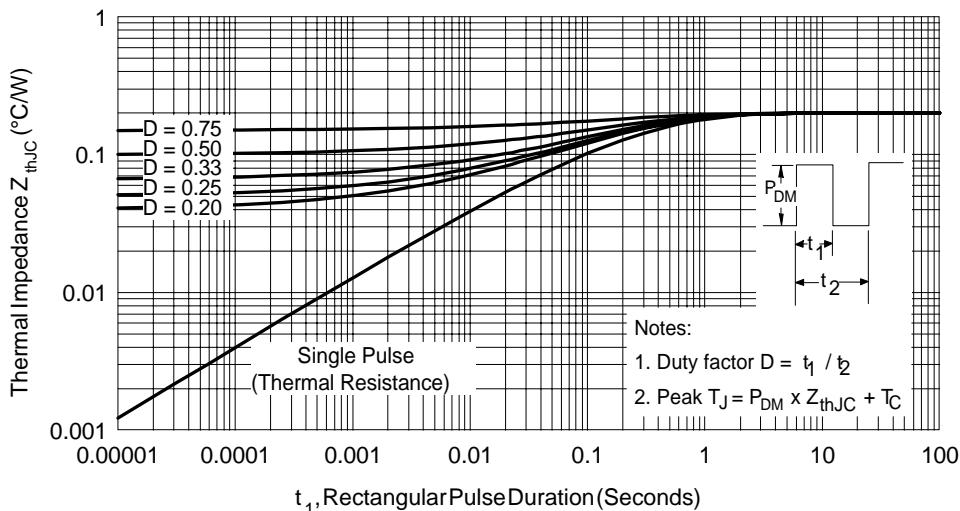


Fig. 4 - Max. Thermal Impedance Z_{thJC} Characteristics (Per Leg)

SRBD40035CT thru SRBD40060CT

Schottky Barrier Rectifier Diode Modules

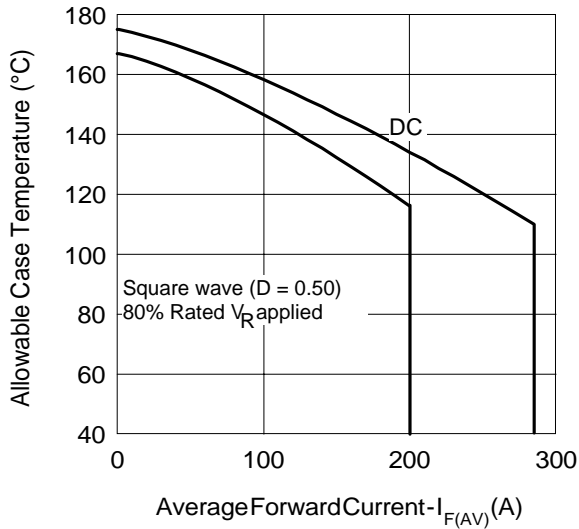


Fig. 5 - Max. Allowable Case Temperature Vs. Average Forward Current

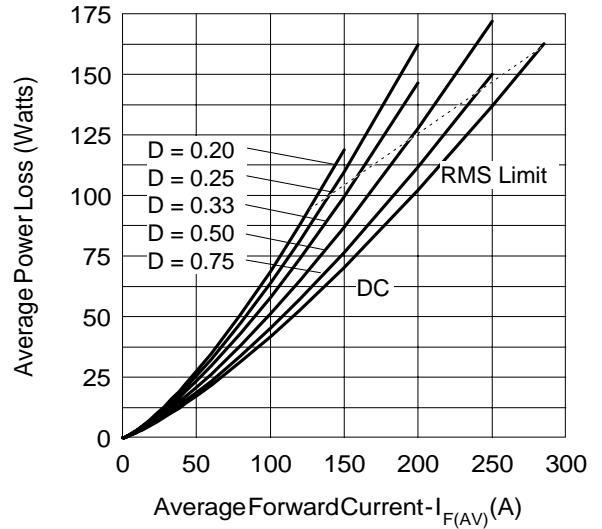


Fig. 6 - Forward Power Loss Characteristics

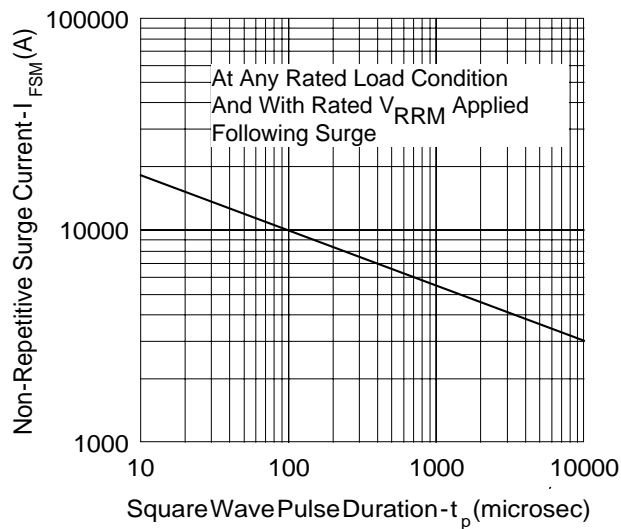


Fig. 7 - Max. Non-Repitative Surge Current

