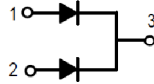


Silicon Schottky Diode, 600A

Features

- Guard Ring Protection
- Low forward voltage drop
- High surge current capability
- Up to 100V V_{RRM}



TWIN TOWER PACKAGE

Maximum Ratings ($T_J = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	MBR60020CT (R)	MBR60030CT (R)	MBR60035CT (R)	MBR60040CT (R)	Units
Repetitive peak reverse voltage	V_{RRM}		20	30	35	40	V
RMS reverse voltage	V_{RMS}		14	21	25	28	V
DC blocking voltage	V_{DC}		20	30	35	40	V
Average forward current	$I_{F(AV)}$	$T_C \leq 100^\circ\text{C}$	600	600	600	600	A
Non-repetitive forward surge current, half sine-wave	I_{FSM}	$T_C = 25^\circ\text{C}$ $t_p = 8.3\text{ ms}$	4000	4000	4000	4000	A

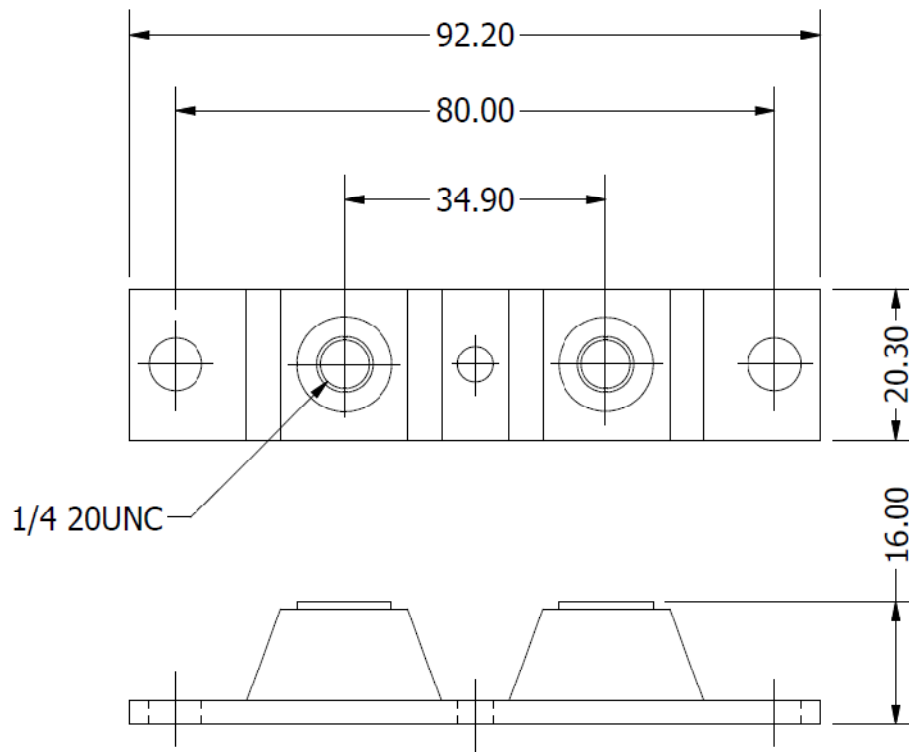
Electrical Characteristics ($T_J = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	MBR60020CT (R)	MBR60030CT (R)	MBR60035CT (R)	MBR60040CT (R)	Units
DC forward voltage	V_F	$I_F = 300\text{ A}$ $T_J = 25^\circ\text{C}$	0.75	0.75	0.75	0.75	V
DC reverse current	I_R	$V_R = 20\text{ V}$ $T_J = 25^\circ\text{C}$	1	1	1	1	mA
		$V_R = 20\text{ V}$ $T_J = 125^\circ\text{C}$	20	20	20	20	

Thermal Characteristics ($T_J = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol		MBR60020CT (R)	MBR60030CT (R)	MBR60035CT (R)	MBR60040CT (R)	Units
Thermal resistance junction to case	R_{thJ-C}		0.12	0.12	0.12	0.12	$^\circ\text{C/W}$
Operating, storage temperature range	T_J, T_{stg}		- 40 to +165	- 40 to +165	- 40 to +165	- 40 to +165	$^\circ\text{C}$

Package Outline



ALL DIMENSIONS IN MM

Ordering Table

<i>MBR</i>	<i>600</i>	<i>20</i>	<i>CT</i>
1	2	3	4

- 1 – Device Type
 - > MBR = Schottky Barrier Diode Module
- 2 – Current Rating = $I_{F(AV)}$
- 3 – Voltage = V_{RRM}
- 4 – Polarity
 - > CT = Normal (Cathode to Base)
 - > CTR = Reverse (Anode to Base)