

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# MBR40020CT(R)L

## Low V<sub>F</sub> Silicon Power Schottky Diode

 $V_{RRM} = 20 V$ 

 $I_{F(AV)} = 400 A$ 

#### **Features**

- High Surge Capability
- Type 20 V V<sub>RRM</sub>
- · Not ESD Sensitive

# LUG LUG Teminal Teminal Anode 1 Anode 2 Teminal Cathode 1 Cathode 2 Baseplate Common Cathode Baseplate R=Common Anode







## Maximum ratings, at T<sub>i</sub> = 25 °C, unless otherwise specified ("R" devices have leads reversed)

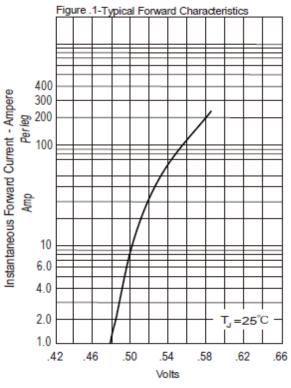
Parameter		Symbol	Conditions	MBR40020CT(R)L	Unit
Maximum recurrent peak	reverse voltage	$V_{RRM}$		20	V
Maximum RMS voltage		$V_{RMS}$		14	V
Maximum DC blocking vo	ltage	$V_{DC}$		20	V
Operating temperature		Tj		-55 to 150	°C
Storage temperature		$T_{stg}$		-55 to 150	°C

### Electrical characteristics, at Tj = 25 °C, unless otherwise specified

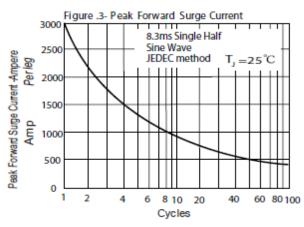
Parameter	Symbol	Conditions	MBR40020CT(R)L	Unit
Average forward current (per pkg)	I <sub>F(AV)</sub>	T <sub>C</sub> = 100 °C	400	Α
Peak forward surge current (per leg)	I <sub>FSM</sub>	$t_p$ = 8.3 ms, half sine	3000	Α
Maximum instantaneous forward voltage (per leg)	V <sub>F</sub>	I <sub>FM</sub> = 200 A, Tj = 25 °C	0.58	V
Maximum instantaneous reverse	I <sub>R</sub>	T <sub>j</sub> = 25 °C	3	mA
current at rated DC blocking voltage (per leg)		T <sub>j</sub> = 100 °C	200	
Thermal characteristics				
Maximum thermal resistance, junction - case (per leg)	$R_{\Theta JC}$		0.35	°C/W







Instantaneous Forward Voltage - Volts



Number Of Cycles At 60Hz - Cycles

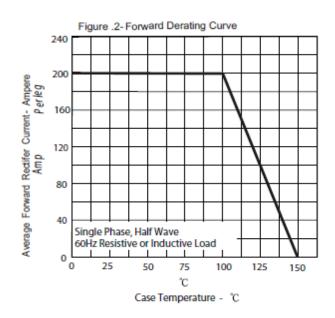
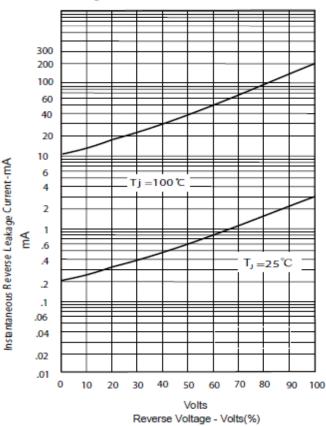


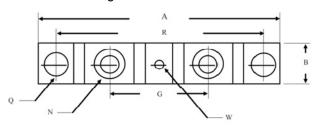
Figure .4- Typical Reverse Characteristics

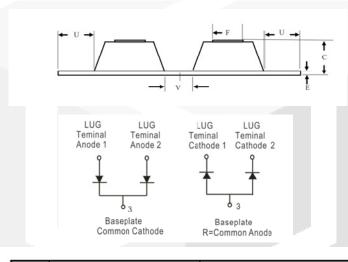




## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.





DIM	Inches		Millimeters	
	Min	Max	Min	Max
A		3.630		92.40
В	0.700	0.800	17.78	20.32
С		0.650		16.51
Е	0.130	0.141	3.30	3.60
F	0.482	0.490	12.25	12.45
G	1.368	BSC	34.75	BSC
N		1/4-20 UNC	FULL	1
Q	0.275	0.290	6.99	7.37
R	3.150	BSC	80.01	BSC
U	0.600		15.24	
V	0.312	0.370	7.92	9.40
W	0.180	0.195	4.57	4.95