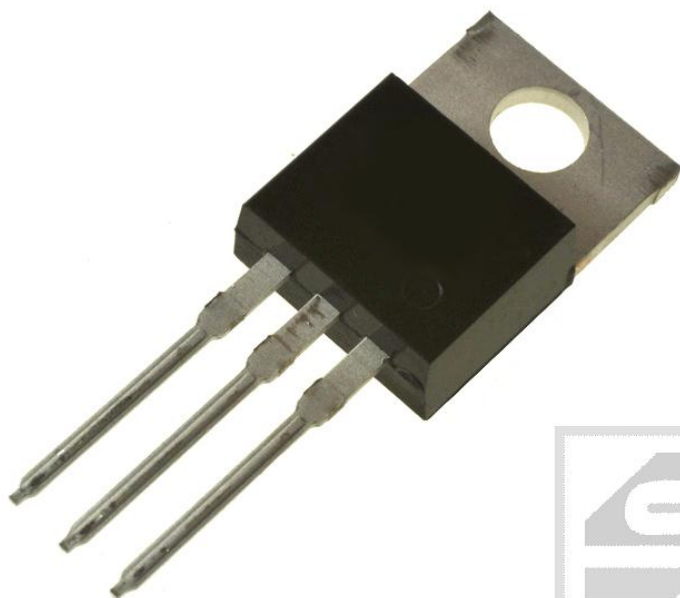




ROBERT STĘPIEŃ
HURTOWNIA CZĘŚCI ELEKTRONICZNYCH
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Dioda Schottky MBR20200CT(duodioda) MIC;20A;200V;TO220/3;Pbf



Dane techniczne:

Nazwa: MBR20200CT

Prąd przewodzenia: 20A

Prąd w impulsie maksymalny: 150A

Napięcie wsteczne maksymalne: 200V

Napięcie przewodzenia maksymalne: 1V

Struktura półprzewodnika: podwójna, wspólna katoda

Obudowa: TO220/3

Montaż: przewlekany(THT)

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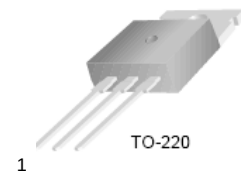
Robert Stępień Hurtownia Części Elektronicznych; Adres: ul. Wolumen 2, pawilon 71; 01-912 Warszawa; tel.: 601 296 402 /
sklep@podzespoly-elektroniczne.pl

MBR20200CT

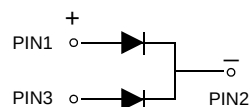
Dual High Voltage Schottky Rectifier

Features:

- Low Forward Voltage Drop
- Low Power Loss and High Efficiency
- High Surge Capability
- RoHS Compliant
- Matte Tin(Sn) Lead Finish
- Terminal Leads Surface is Corrosion Resistant and can withstand to 260°C
- Wave Soldering or per MIL-STD-750 Method 2026.



Mark : MBR20200CT



Absolute Maximum Ratings* $T_a = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Unit
V_{RRM}	Maximum Repetitive Reverse Voltage	200	V
V_R	Maximum DC Reverse Voltage	200	V
$I_{F(AV)}$	Average Rectified Forward Current, $T_c=115^\circ\text{C}$	10 (Per Leg) 20(Per Device)	A
I_{FSM}	Peak Forward Surge Current, 8.3mS Half Sine wave	150	A
T_{STG}	Storage Temperature Range	-55 ~ 150	$^\circ\text{C}$
T_J	Operating Junction Temperature	150	$^\circ\text{C}$

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Thermal Characteristics* $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Max	Unit
$R_{\theta JC}$	Thermal Resistance, Junction to Case per Leg	1.5	$^\circ\text{C/W}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient per Leg	62.5	$^\circ\text{C/W}$

* MIL standard 883-1012 & JESD51-10

Electrical Characteristics* $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Unit
I_R	Reverse Current	$V_R = 200\text{V}$ $T_C = 25^\circ\text{C}$ $V_R = 200\text{V}$ $T_C = 125^\circ\text{C}$		0.2 5	mA
V_F	Forward Voltage	$I_F = 10\text{A}$ $T_C = 25^\circ\text{C}$ $I_F = 10\text{A}$ $T_C = 125^\circ\text{C}$ $I_F = 20\text{A}$ $T_C = 25^\circ\text{C}$ $I_F = 20\text{A}$ $T_C = 125^\circ\text{C}$		0.9 0.8 1.0 0.9	V

* DC Item are tested by Pulse Test : Pulse Width $\leq$ 300us, Duty Cycle $\leq$ 2%

Typical Performance Characteristics

Figure 1. Forward Current Characteristics

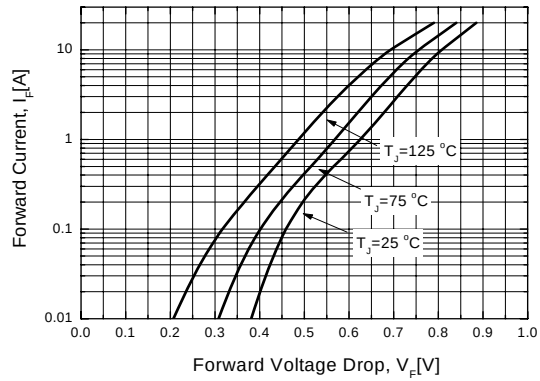


Figure 2. Reverse Leakage Current

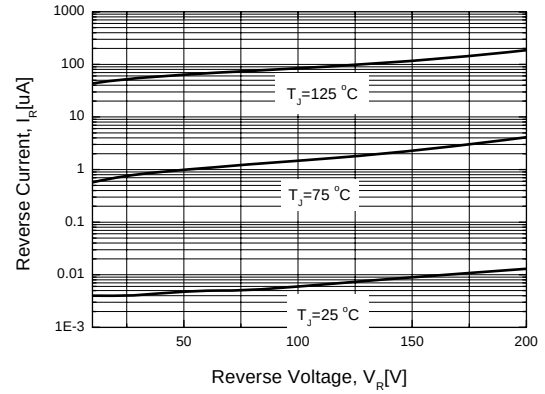


Figure 3. Junction Capacitance

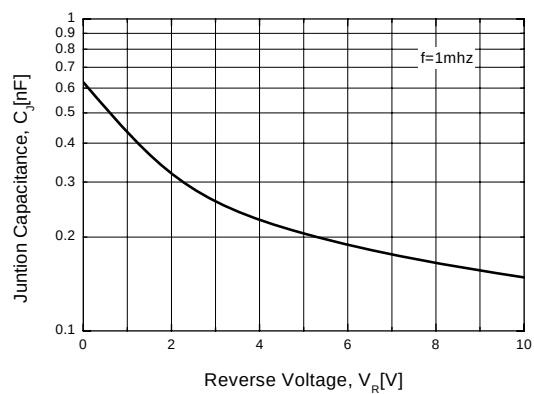
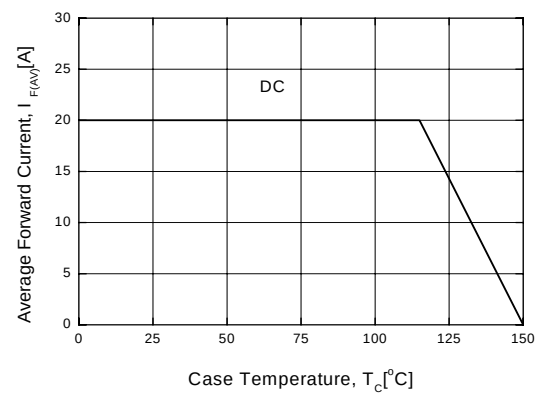
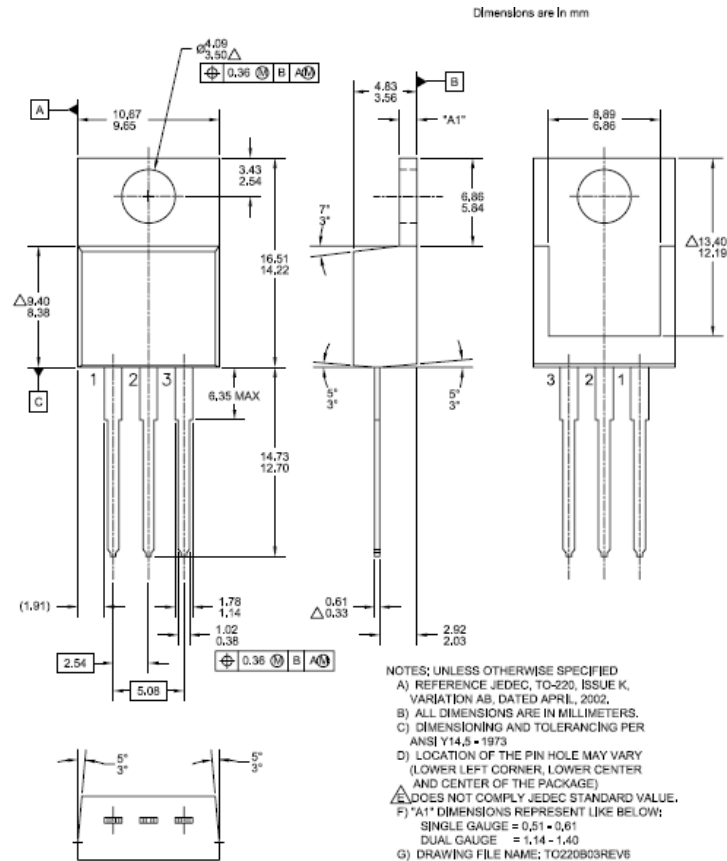


Figure 4. Power Derating



Package Dimensions

TO-220(DUAL GAUGE)



Dimensions in Millimeters



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CTL [™]	IntelliMAX [™]	Programmable Active Droop [™]	TinyBoost [™]
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Preliminary	First Production	This datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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