

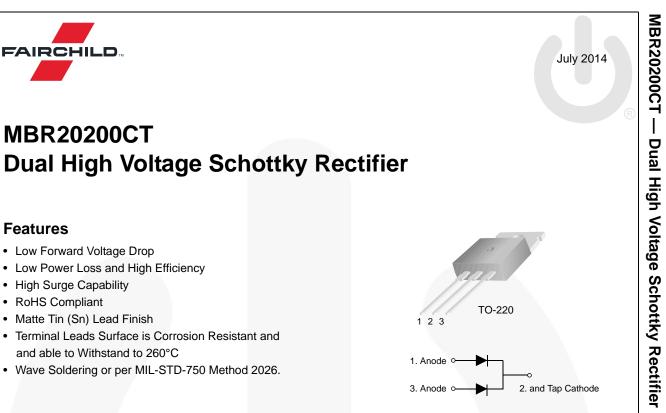
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Ordering Information

Part Number	Top Mark	Package	Packing Method
MBR20200CTTU	MBR20200CT	TO-220 3L	Rail

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Unit	
V _{RRM}	Maximum Repetitive Reverse Voltage		200	V
V _R	Maximum DC Reverse Voltage		200	V
1	Average Rectified Forward Current, at T _C = 115°C	per Leg	10	A
I _{F(AV)}		per Device	20	
I _{FSM}	Peak Forward Surge Current, 8.3 ms Half-Sine Wave		150	А
T _{STG}	Storage Temperature Range		-50 to +150	°C
TJ	Operating Junction Temperature		150	°C

Thermal Characteristics⁽¹⁾

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter Val		Unit
R _{θJC}	Thermal Resistance, Junction-to-Case per Leg	1.5	°C/W
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction-to-Ambient per Leg62.5		°C/W

Note:

1. MIL standard 883-1012 and JESD51-10.

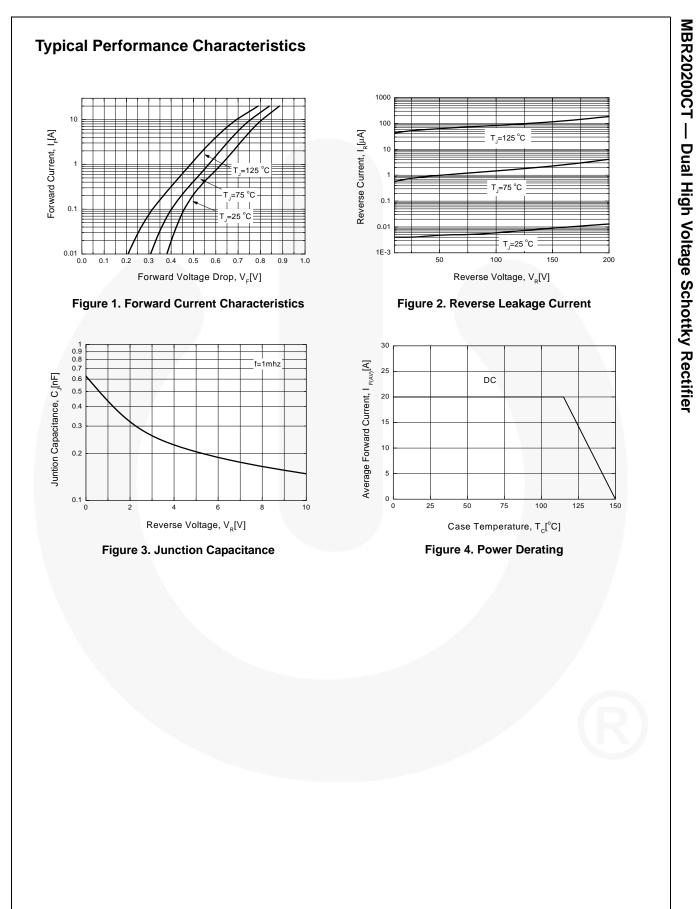
Electrical Characteristics⁽²⁾

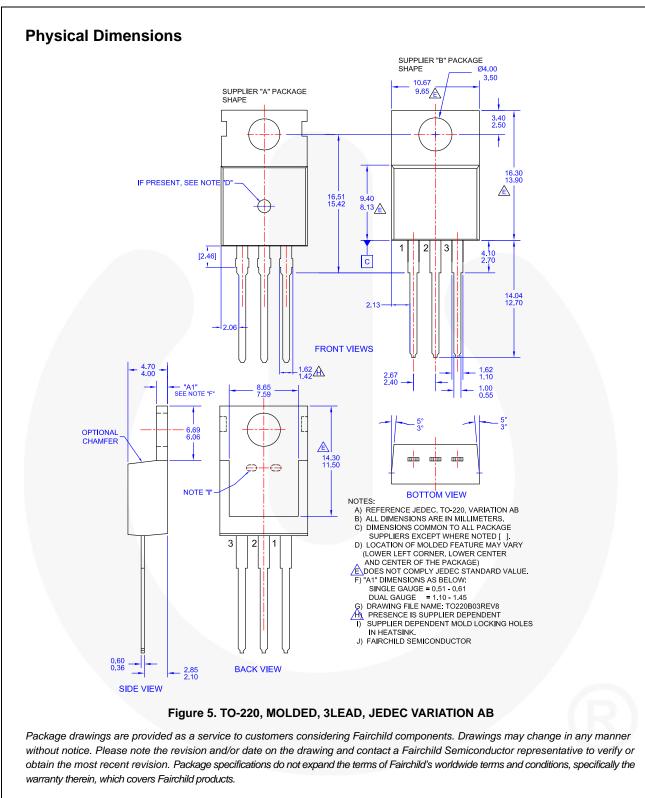
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Max.	Unit
I _R	Reverse Current	$V_{R} = 200 \text{ V}, \text{ T}_{C} = 25^{\circ}\text{C}$		0.2	mA
		$V_{R} = 200 \text{ V}, \text{ T}_{C} = 125^{\circ}\text{C}$		2.0	
V _F	Forward Voltage	$I_{\rm F} = 10 \text{ A}, \text{ T}_{\rm C} = 25^{\circ} \text{C}$		0.9	v
		$I_{F} = 10 \text{ A}, \text{ T}_{C} = 125^{\circ}\text{C}$		0.8	
		$I_{\rm F} = 20 \text{ A}, \text{ T}_{\rm C} = 25^{\circ} \text{C}$		1.0	
		I _F = 20 A, T _C = 125°C		0.9	

Note:

2. DC Item are tested by pulse test: pulse width \leq 300 $\mu s,$ duty cycle \leq 2%.





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