

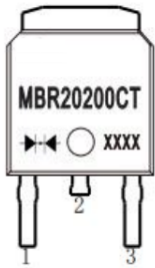
MAIN CHARACTERISTICS

I_O	20(2×10) A
V_{RRM}	200V
T_J	175°C
$V_{F(typ)}$	0.89V

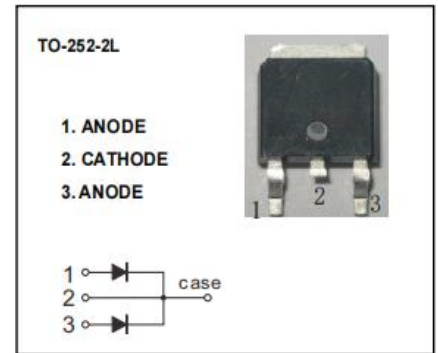
FEATURES

- Low Power Loss, High Efficiency
- High Current Capability and Low Forward Voltage Drop

Marking



MBR(F)20200CT= Device code
 Solid dot = Green molding compound device
 if none, the normal device
 XXXX= Code



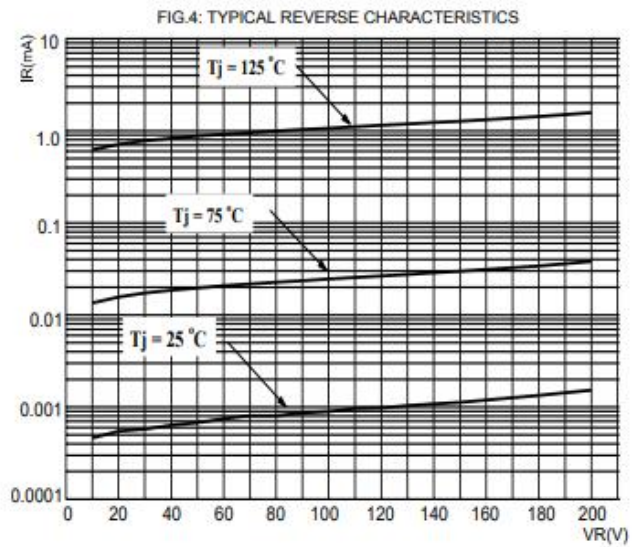
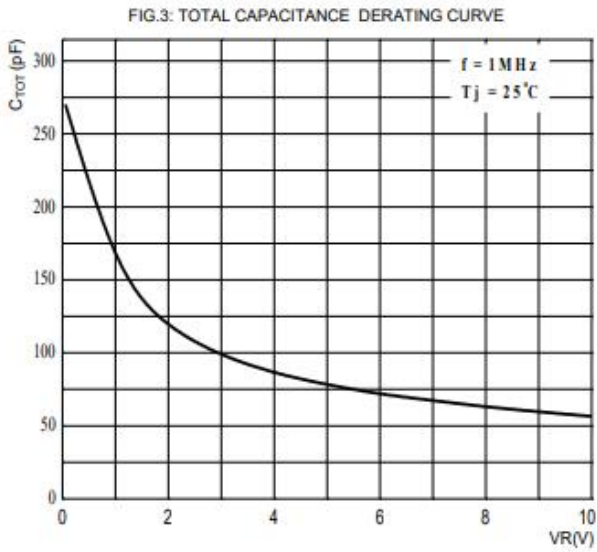
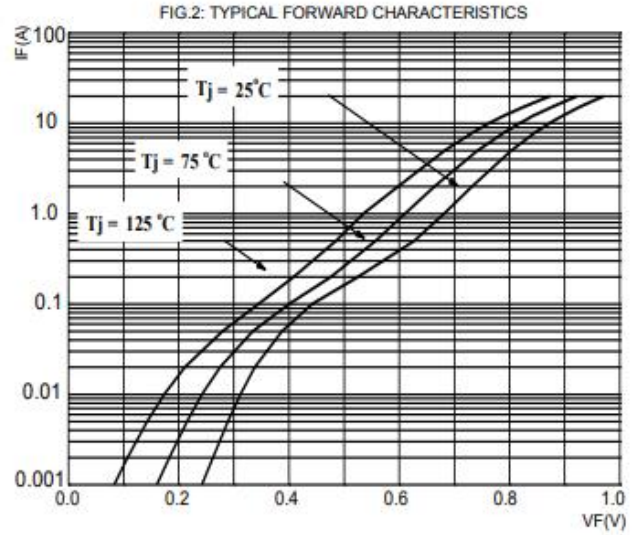
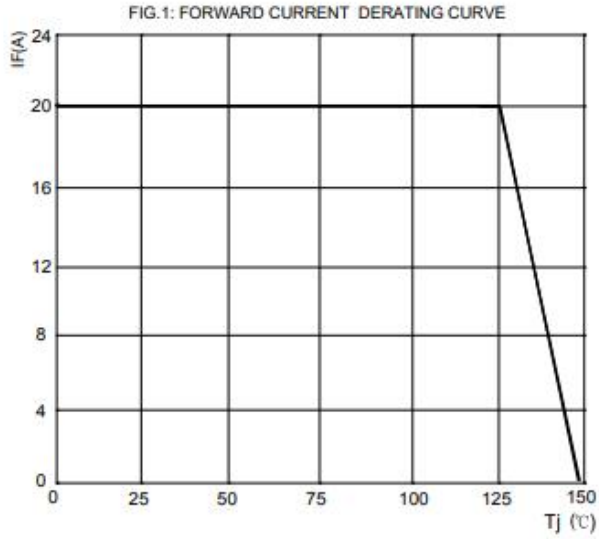
MAXIMUM RATINGS(Ta=25°C unless otherwise noted)

Symbol	Parameter	MBR		Unit
		20200CT	F20200CT	
V_{RRM}	Peak repetitive reverse Voltage	200		V
V_{RWM}	Working peak reverse Voltage			
V_R	DC blocking voltage			
$V_{R(RMS)}$	RMS reverse Voltage	205		V
I_O	Average rectified output current	20		A
I_{FSM}	Non-Repetitive peak forward surge current(8.3ms half sine wave)	300		A
T_j	Junction Temperature	175		°C
T_{stg}	Storage Temperature	-55~+150		
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	100		°C/W
$R_{\theta JC}$	Thermal Resistance From Junction To Case	5.0		°C/W

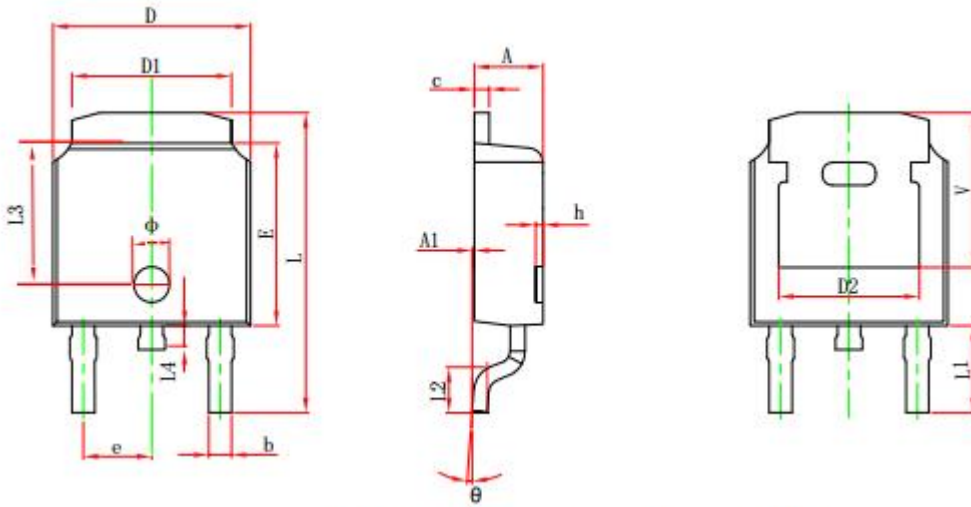
ELECTEICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=0.2mA$	205			V
Reverse current	I_R	$V_R=205V$	$T_j=25^\circ C$	0.3	5.0	μA
			$T_j=125^\circ C$	1.0		μA
Forward voltage	V_F	$I_F=5A$	$T_j=25^\circ C$	0.79	0.83	V
			$T_j=125^\circ C$	0.63		V
		$I_F=10A$	$T_j=25^\circ C$	0.89	0.92	V
			$T_j=125^\circ C$	0.57		V

Typical Characteristics

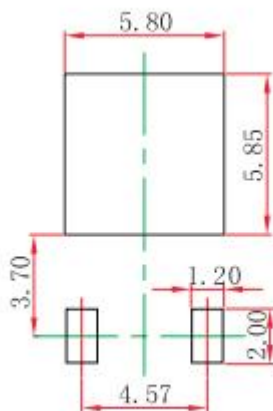


TO-252-2L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.635	0.770	0.025	0.030
c	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	4.830 REF.		0.190 REF.	
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.712	10.312	0.382	0.406
L1	2.900 REF.		0.114 REF.	
L2	1.400	1.700	0.055	0.067
L3	4.460 REF.		0.1756 REF.	
L4	0.600	1.000	0.024	0.039
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.250 REF.		0.207 REF.	

TO-252-2L Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.