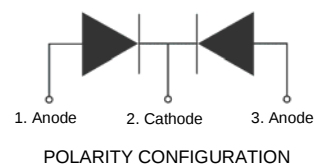
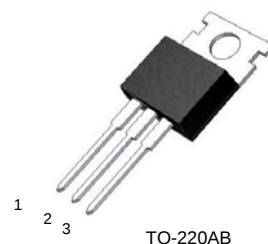


20A SCHOTTKY BARRIER DIODE

Dual High Voltage Schottky Rectifier

Specification Features:

- High Voltage Wide Range Selection, 100V, 150V & 200V
- High Switching Speed Device
- Low Forward Voltage Drop
- Low Power Loss and High Efficiency
- Guard Ring for Over-voltage Protection
- 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.



DEVICE MARKING DESIGNATION:

Line 1 & 2 = Device Name
Line 3 = Datecode
Line 4 = Polarity

MAXIMUM RATINGS (Per Leg, unless otherwise specified)

Symbol	Parameter	TCMBR20100CT	TCMBR20150CT	TCMBR20200CT	Units
V_{RRM} V_{RWM} V_R	Maximum Repetitive Reverse Voltage Working Peak Reverse Voltage Maximum DC Reverse Voltage	100	150	200	V
$I_{F(AV)}$	Average Rectified Forward Current Per Leg Per Package	10 20			A
I_{FSM}	Non-repetitive Peak Forward Surge Current 8.3mS Single Phase @ Rated Load	150			A
T_{STG}	Storage Temperature Range	-65 to +175			°C
T_J	Operating Junction Temperature	+175			°C

These ratings are limiting values above which the serviceability of the diode may be impaired.

THERMAL CHARACTERISTICS

$T_A = 25^\circ\text{C}$ unless otherwise noted

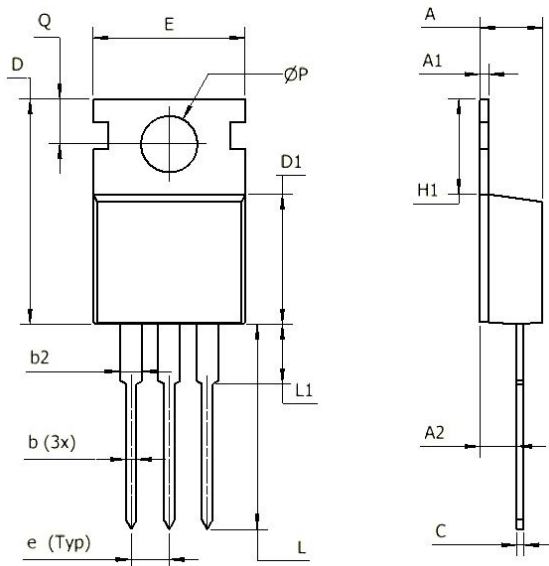
Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction-to-Case	2.0	°C/W

ELECTRICAL CHARACTERISTICS (Per Diode) $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition (Note 1)	TCMBR20100CT		TCMBR20150CT		TCMBR20200CT		Units
			Min	Max	Min	Max	Min	Max	
I_R	Reverse Current	@ rated V_R	---	200	---	200	---	200	μA
V_F	Forward Voltage	$I_F = 10\text{A}$	---	0.800	---	0.850	---	0.900	V
		$I_F = 20\text{A}$	---	0.900	---	0.950	---	1	

Note/s:

- Tested under pulse condition of 300 μs .

TO220 PACKAGE OUTLINE


DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.140	0.190	3.56	4.83
A1	0.020	0.055	0.51	1.40
A2	0.080	0.115	2.03	2.92
b	0.015	0.040	0.38	1.02
b2	0.045	0.070	1.14	1.78
c	0.014	0.024	0.36	0.61
D	0.560	0.650	14.22	16.51
e	0.096	0.104	2.44	2.64
E	0.380	0.420	9.65	10.67
H1	0.230	0.270	5.84	6.86
L	0.500	0.580	12.70	14.73
L1	---	0.250	---	6.35
ØP	0.139	0.161	3.53	4.09
Q	0.100	0.135	2.54	3.43

NOTE: Above package outline conforms to JEDEC TO-220AB.

This datasheet presents technical data of Tak Cheong's Schottky Diodes. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website <http://www.takcheong.com>.

Although information in this datasheet has been carefully checked, no responsibility for the inaccuracies can be assumed by Tak Cheong. Please consult your nearest Tak Cheong's sales office for further assistance.

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