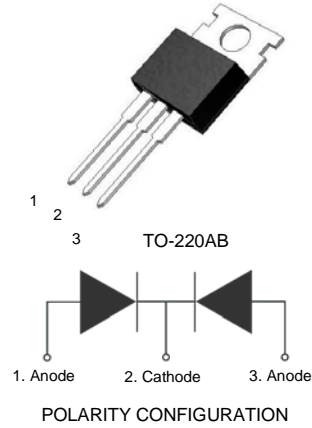


# 10A SCHOTTKY BARRIER DIODE

## 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	TCMBR10100CT	TCMBR10150CT	TCMBR10200CT	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	5 10			A
$I_{FSM}$	Non-repetitive Peak Forward Surge Current 8.3mS Single Phase @ Rated Load	80			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 CHARACTERISTIC

Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction-to-Case	1.5	°C/W

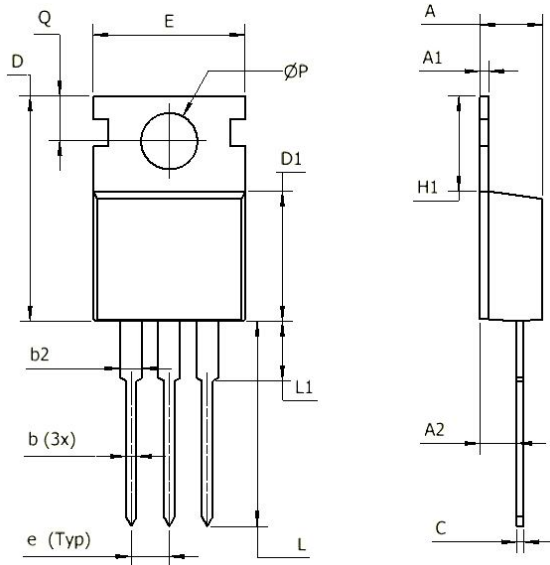
### ELECTRICAL CHARACTERISTICS (Per Leg) $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition (Note 1)	TCMBR10100CT		TCMBR10150CT		TCMBR10200CT		Units
			Min	Max	Min	Max	Min	Max	
$I_R$	Reverse Current	@ rated $V_R$	---	100	---	100	---	100	$\mu\text{A}$
$V_F$	Forward Voltage	$I_F = 5\text{A}$	---	0.850	---	0.900	---	0.950	V
		$I_F = 10\text{A}$	---	0.900	---	0.950	---	1	

Note/s:

1. Tested under pulse condition of 300 $\mu\text{s}$ .

**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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