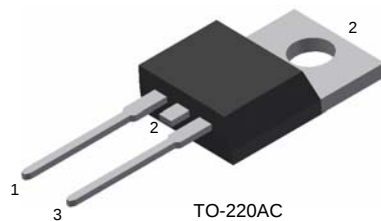


20A SCHOTTKY BARRIER DIODE

High Current Schottky Rectifier

Specification Features:

- High Switching Speed Device
- High Current, 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 = Device Name
Line 2 = Datecode
Line 3 = Polarity

MAXIMUM RATINGS

Symbol	Parameter	Value	Units
V_{RRM} V_{RWM} V_R	Maximum Repetitive Reverse Voltage Working Peak Reverse Voltage Maximum DC Reverse Voltage	60	V
$I_{F(AV)}$	Average Rectified Forward Current	20	A
I_{FSM}	Peak Forward Surge Current, 8.3mS Single Phase @ Rated Load	?	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

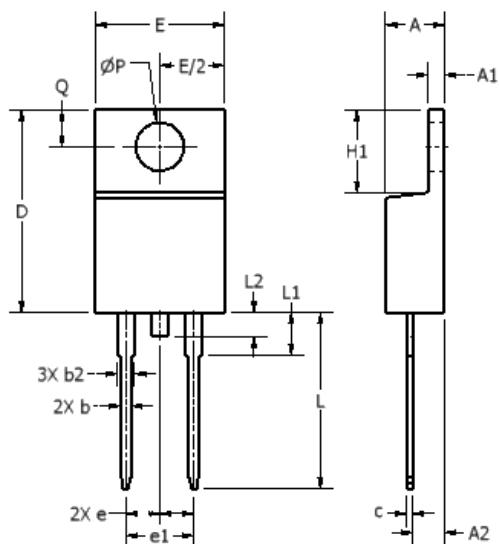
Symbol	Parameter	Value	Units
$R_{\theta JC}$	Maximum Thermal Resistance, Junction-to-Case	2	°C/W

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

Symbol	Parameter	Test Condition (Note 1)	Limits		Units
			Min	Max	
I_R	Reverse Current	@ rated V_R	---	1mA	μA
V_F	Forward Voltage	20A	---	0.750	V

Note/s:

1. 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
e1	0.196	0.204	4.98	5.18
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
L2	---	0.070	---	1.79
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-220AC.

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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