



Dual Common Cathode Schottky Rectifier

FEATURES

- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: TO-220AB

Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Polarity: As marked

Mounting torque: 5 in-lbs maximum **Weight:** 1.9 g (approximately)



TO-220AB

2

- 55 to +175

- 55 to +175





MAXIMUM RATINGS AND ELECTRICAL	CHARACTERIST	$CS (T_A=25^{\circ}C)$ unless otherwise no	oted)
PARAMETER	SYMBOL	MBR30H100CT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	70	V
Maximum DC blocking voltage	V _{DC}	100	V
Maximum average forward rectified current	I _{F(AV)}	30	А
Peak repetitive forward current (Rated VR, square wave, 20KHz)	I _{FRM}	30	А
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150	А
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1	А
Maximum instantaneous forward voltage (Note 2) $I_F=15A$, $T_J=25^{\circ}$ C $I_F=15A$, $T_J=125^{\circ}$ C $I_F=30A$, $T_J=25^{\circ}$ C $I_F=30A$, $T_J=125^{\circ}$ C	V _F	0.85 0.75 0.98 0.85	V
Maximum reverse current @ rated VR T $_{\rm J}$ =25 $^{\circ}{\rm C}$ T $_{\rm J}$ =125 $^{\circ}{\rm C}$	I _R	10 2	μA mA
Voltage rate of change (Rated V _R)	dV/dt	10000	V/µs
	The state of the s		

 $R_{\theta JC}$

 T_J

 $\mathsf{T}_{\mathsf{STG}}$

Storage temperature range Note 1: tp = 2.0 µs, 1.0KHz

Typical thermal resistance

Operating junction temperature range

Note 2: Pulse test with PW=300µs, 1% duty cycle

°C/W



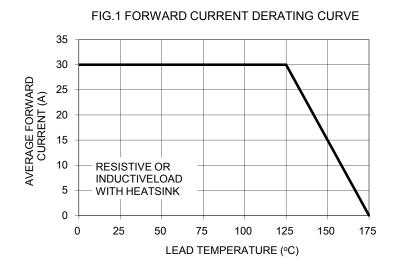


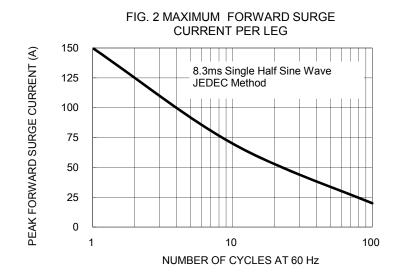
ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
MBR30H100CT	C0	Suffix "G"	TO-220AB	50 / Tube

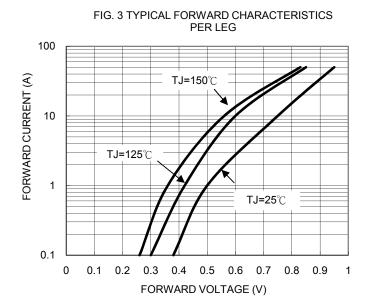
EXAMPLE					
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
MBR30H100CT C0	MBR30H100CT	C0			
MBR30H100CT C0G	MBR30H100CT	C0	G	Green compound	

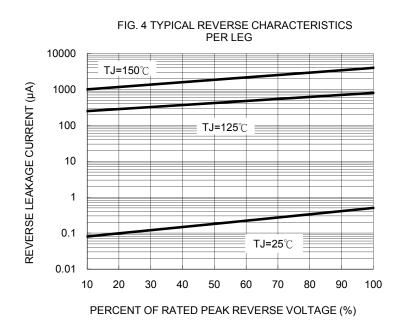
RATINGS AND CHARACTERISTICS CURVES

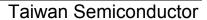
(TA=25°C unless otherwise noted)



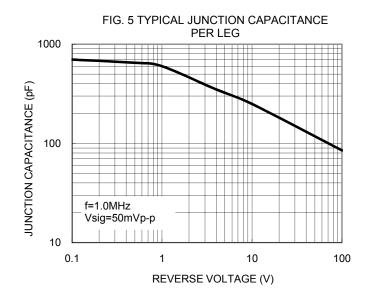


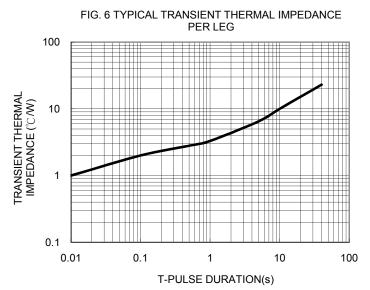




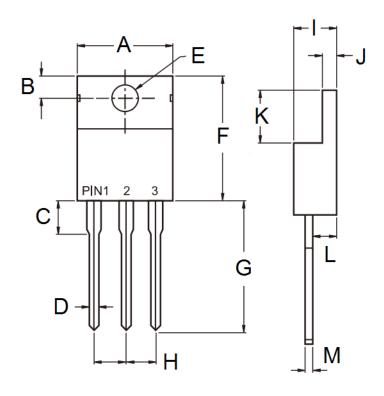








PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
Α	-	10.50	-	0.413
В	2.62	3.44	0.103	0.135
С	2.80	4.20	0.110	0.165
D	0.68	0.94	0.027	0.037
Е	3.54	4.00	0.139	0.157
F	14.60	16.00	0.575	0.630
G	13.19	14.79	0.519	0.582
Н	2.41	2.67	0.095	0.105
I	4.42	4.76	0.174	0.187
J	1.14	1.40	0.045	0.055
K	5.84	6.86	0.230	0.270
L	2.20	2.80	0.087	0.110
М	0.35	0.64	0.014	0.025

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code







Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied,to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or seling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D1308032 Version: I13