



Dual Common Cathode Schottky Rectifier

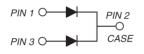
FEATURES

- 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





TO-220AB





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)

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 $T_J = 25~^{\circ}\!$	I _R	10 2	μA mA	
Voltage rate of change (Rated V _R)	dV/dt	10000	V/µs	
Typical thermal resistance	$R_{ heta JC}$	2	°C/W	
Operating junction temperature range	T _J	- 55 to +175	оС	
Storage temperature range	T _{STG}	- 55 to +175	°С	

Note 1: $tp = 2.0 \mu s$, 1.0KHz

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

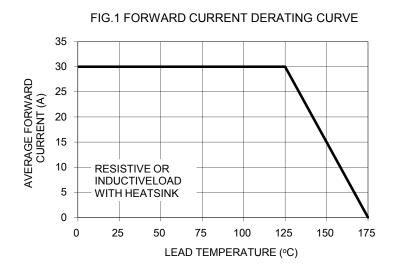


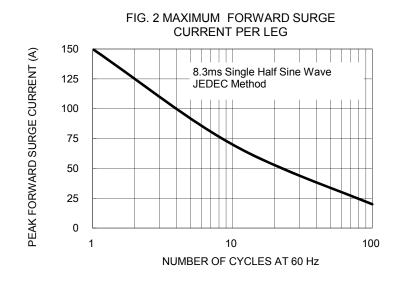
ORDERING INFORMATION					
PART NO. PACKING CODE		GREEN COMPOUND PACKAGE CODE		PACKING	
MBR30H100CT	C0	Suffix "G"	TO-220AB	50 / Tube	

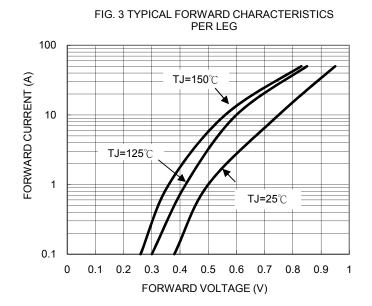
EXAMPLE						
PREFERRED P/N PART NO.		PACKING CODE GREEN COMPOU		DESCRIPTION		
MBR30H100CT C0	MBR30H100CT	C0				
MBR30H100CT C0G	MBR30H100CT	C0	G	Green compound		

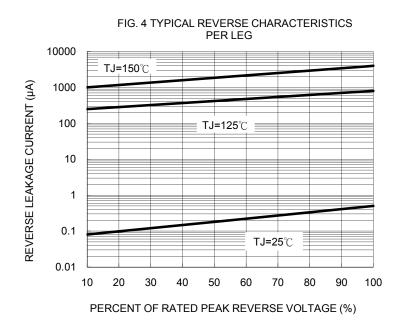
RATINGS AND CHARACTERISTICS CURVES

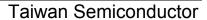
(TA=25°C unless otherwise noted)



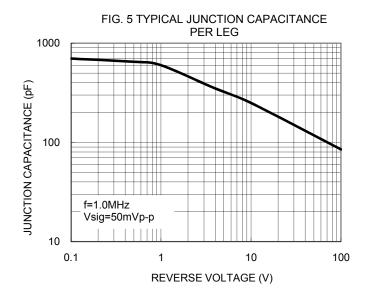


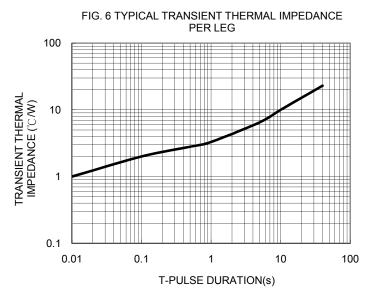




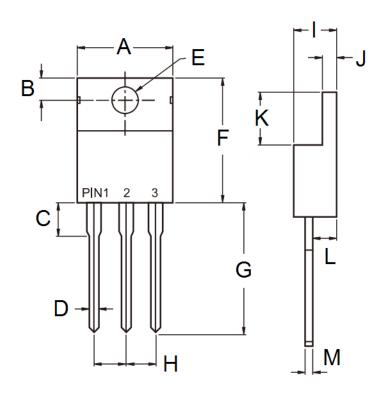








PACKAGE OUTLINE DIMENSIONS



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
M	0.35	0.64	0.014	0.025

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code F = Factory Code







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