



Dual Common Cathode Schottky Rectifier

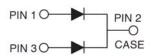
FEATURES

- 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: I²PAK

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

Weight: 1.7 g (approximately)

PARAMETER	SYMBOL	MBRI20100CT	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)}	20	A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150	
Maximum instantaneous forward voltage (Note 2) I_F = 10 A, T_J =25 $^{\circ}$ C I_F = 10 A, T_J =125 $^{\circ}$ C I_F = 20 A, T_J =25 $^{\circ}$ C I_F = 20 A, T_J =125 $^{\circ}$ C	V _F	0.85 0.75 0.95 0.85	V
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R	0.1 5	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	TJ	- 55 to +150	оС
Storage temperature range	T _{STG}	- 55 to +150	°С

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



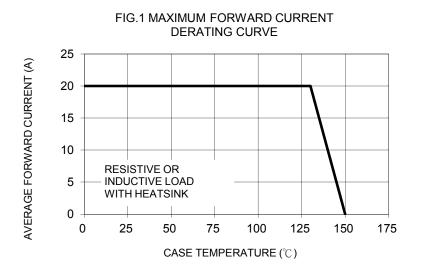


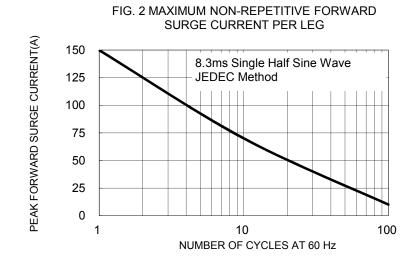
ORDERING INFORMATION					
PART NO.	PACKING CODE	GREEN COMPOUND PACKAGE		PACKING	
MBRI20100CT	CO	Suffix "G"	I ² PAK	50 / Tube	

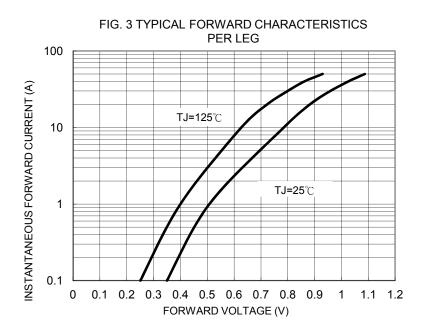
EXAMPLE					
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
MBRI20100CT C0	MBRI20100CT	C0			
MBRI20100CT C0G	MBRI20100CT	C0	G	Green compound	

RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^{\circ}$ C unless otherwise noted)







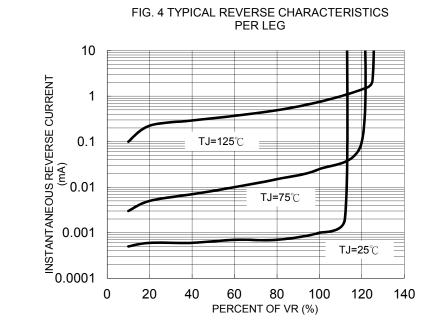
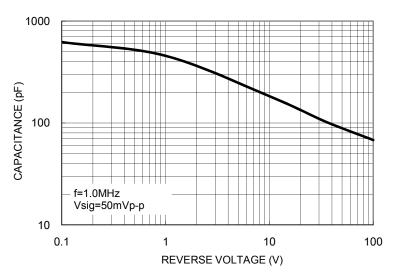
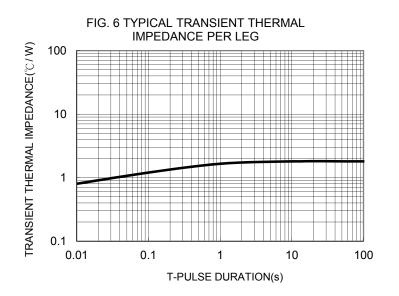




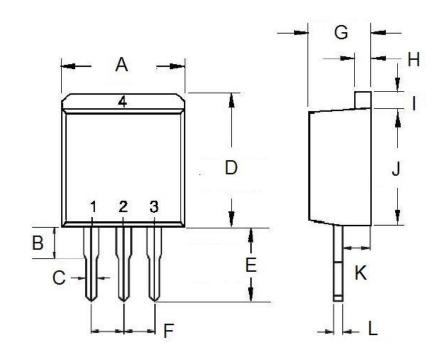


FIG. 5 TYPICAL JUNCTION CAPACITANCE





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
DIIVI.	Min	Max	Min	Max
Α	-	10.50	1	0.413
В	3.56	4.06	0.140	0.160
С	0.68	0.94	0.027	0.037
D	14.60	15.88	0.575	0.625
E	7.58	8.12	0.298	0.320
F	2.41	2.67	0.095	0.105
G	4.44	4.70	0.175	0.185
Н	1.14	1.40	0.045	0.055
I	1.14	1.40	0.045	0.055
J	8.25	9.25	0.325	0.364
K	2.54	2.79	0.100	0.110
L	0.35	0.64	0.014	0.025

MARKING DIAGRAM

SGYWWF P/N P/N = Marking Code G = Green Compound

YWW = Date Code F = Factory Code

Document Number: DS_D1310018



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_D1310018 Version: E13