



Dual Common Cathode Schottky Rectifier

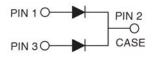
FEATURES

- 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

1₂ u









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	А
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	οС
Storage temperature range	T _{STG}	- 55 to +150	°C

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

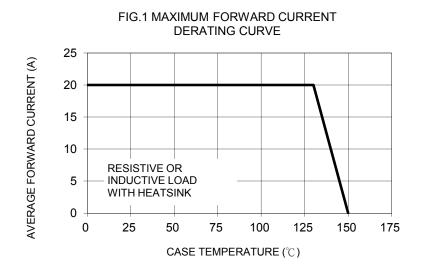


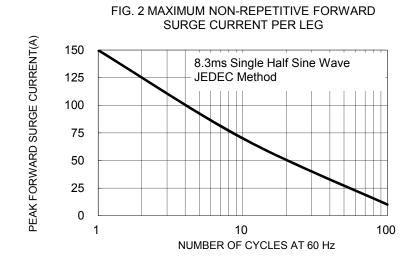
ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
MBRI20100CT	CO	Suffix "G"	I ² PAK	50 / Tube

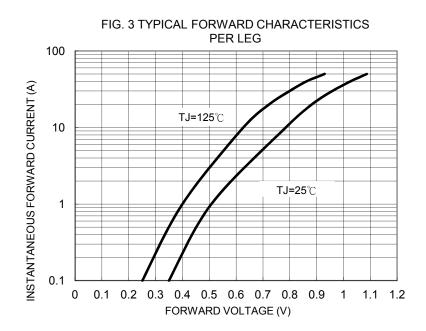
EXAMPLE					
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
MBRI20100CT C0	MBRI20100CT	C0			
MBRI20100CT C0G	MBRI20100CT	C0	G	Green compound	

RATINGS AND CHARACTERISTICS CURVES

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







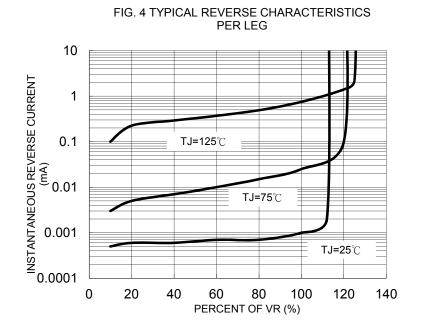
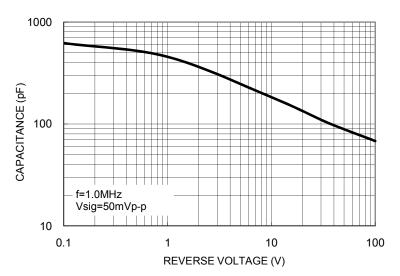
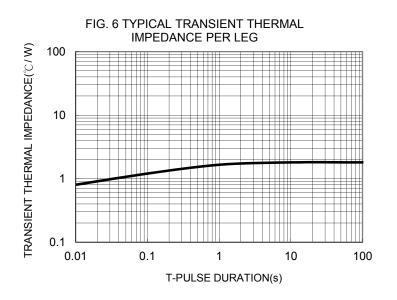




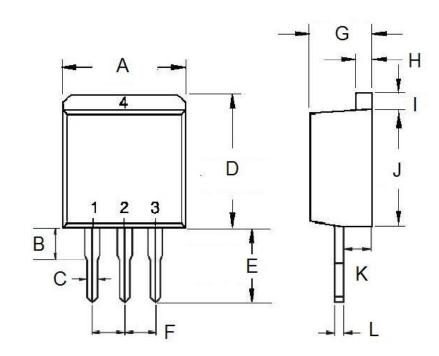


FIG. 5 TYPICAL JUNCTION CAPACITANCE





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

S GYWWF P/N P/N = Marking Code G = Green Compound

YWW = Date Code F = Factory Code







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