

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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	А
Maximum instantaneous forward voltage (Note 2) $I_F=10~A,~T_J=25^{\circ}{\rm C}$ $I_F=10~A,~T_J=125^{\circ}{\rm C}$ $I_F=20~A,~T_J=25^{\circ}{\rm C}$ $I_F=20~A,~T_J=125^{\circ}{\rm C}$	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	$R_{\theta JC}$	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

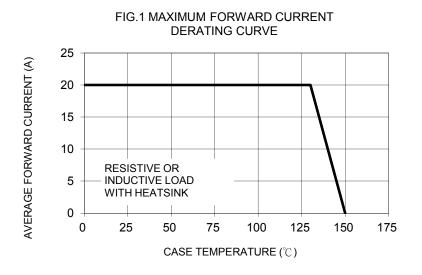


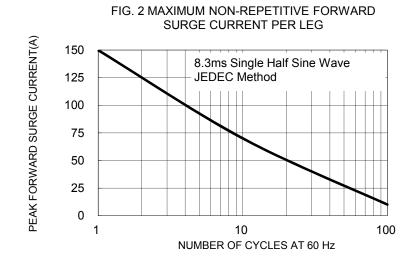
ORDERING INFORMATION					
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
MBRI20100CT	CO	Suffix "G"	I ² PAK	50 / Tube	

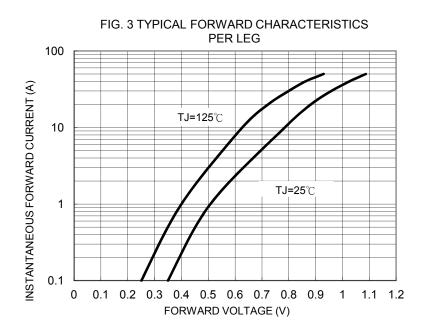
EXAMPLE					
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
MBRI20100CT C0	MBRI20100CT	C0			
MBRI20100CT C0G	MBRI20100CT	C0	G	Green compound	

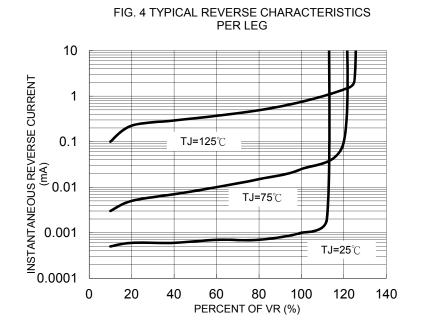
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)













10

0.1

1000

(b)

(c)

(d)

(d)

(d)

(e)

(e)

(e)

(f=1.0MHz

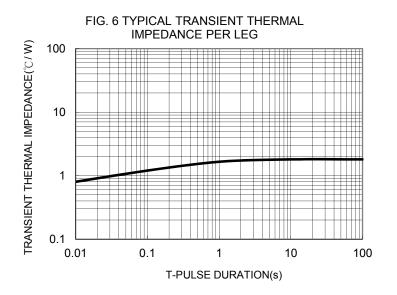
Vsig=50mVp-p

10

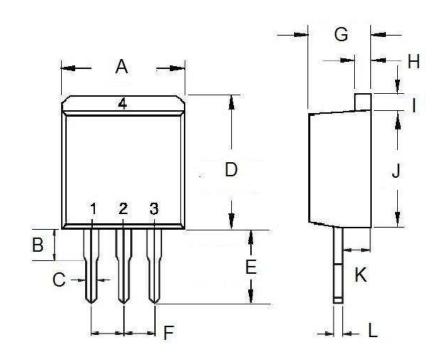
REVERSE VOLTAGE (V)

100

FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
Α	-	10.50	-	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
Е	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
Ĺ	0.35	0.64	0.014	0.025

MARKING DIAGRAM

S GYWWF

P/N = Marking Code
G = Green Compound
YWW = Date Code

YWW = Date Code F = Factory Code

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