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!

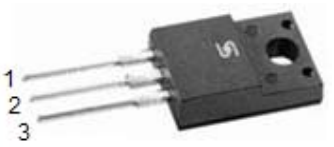
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

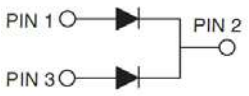
Dual Common Cathode Schottky Rectifier

FEATURES

- UL Recognized File # E-326243
- 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



ITO-220AB



Pb-Free

RoHS COMPLIANT

MECHANICAL DATA

Case：ITO-220AB

Molding compound, UL flammability classification rating 94V-0
Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant
Base P/N with prefix "H" on packing code - AEC-Q101 qualified

Terminal：Matte tin plated leads, solderable per JESD22-B102
Meet JESD 201 class 1A whisker test,
with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity：As marked

Mounting torque：5 in-lbs maximum

Weight：1.7 gram (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERSTICS (T_A=25℃ unless otherwise noted)

PARAMETER	SYMBOL	MBRF20L100CT		MBRF20L120CT		UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	100		120		V
Maximum RMS voltage	V_{RMS}	70		84		V
Maximum DC blocking voltage	V_{DC}	100		120		V
Maximum average forward rectified current	$I_{F(AV)}$	20				A
Peak Repetitive Forward Current (Rated VR, Square Wave, 20KHz)	I_{FRM}	20				A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	150				A
Peak Repetitive Reverse Surge Current (Note 1)	I_{RRM}	1				A
Maximum Instantaneous Forward Voltage (Note 2)	V_F	TYP	MAX	TYP	MAX	V
IF= 10 A, TA=25℃		0.72	0.75	0.78	0.83	
IF= 10 A, TA=125℃		0.58	0.68	0.63	0.72	
IF= 20 A, TA=25℃		0.81	0.85	0.86	0.9	
IF= 20 A, TA=125℃		0.67	0.75	0.73	0.8	
Maximum reverse current @ rated VR	I_R	TYP	MAX	TYP	MAX	uA mA
T_A=25 ℃		1.1	20	1	20	
T_A=125 ℃		1.2	15	1.4	10	
Voltage rate of change (Rated V_R)	dV/dt	10000				V/us
Typical thermal resistance	$R_{\theta JC}$	5.5		5		^{O}C/W
Operating junction temperature range	T_J	- 55 to + 150				^{O}C
Storage temperature range	T_{STG}	- 55 to + 150				^{O}C

Note 1： tp = 2.0 μs, 1.0KHz

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

ORDERING INFORMATION					
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
MBRF20L1xxCT (Note 1)	Prefix "H"	C0	Suffix "G"	ITO-220AB	50 / Tube

Note 1: "xx" defines voltage from 100V (MBRF20L100CT) to 120V (MBRF20L120CT)

EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
MBRF20L100CT C0	MBRF20L100CT		C0		
MBRF20L100CT C0G	MBRF20L100CT		C0	G	Green compound
MBRF20L100CTHC0	MBRF20L100CT	H	C0		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

(TA=25℃ unless otherwise noted)

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

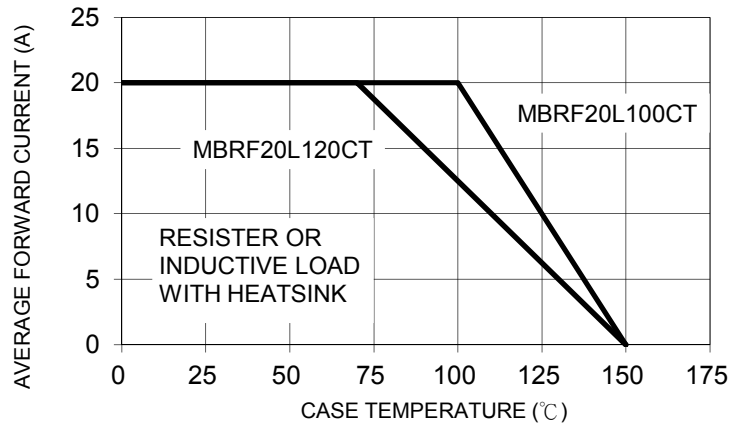


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

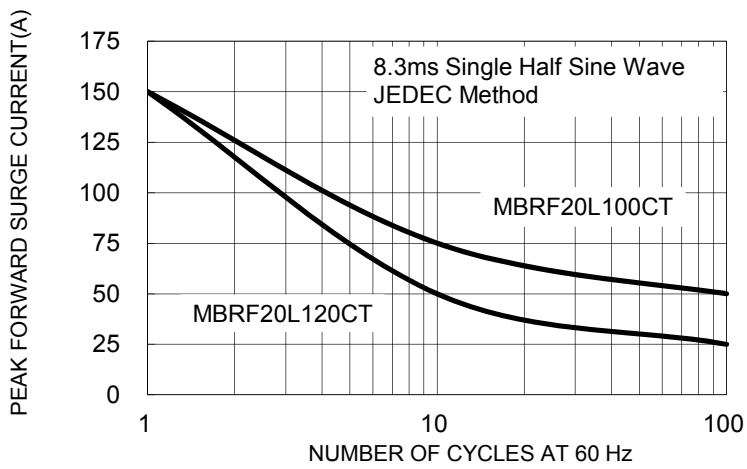


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

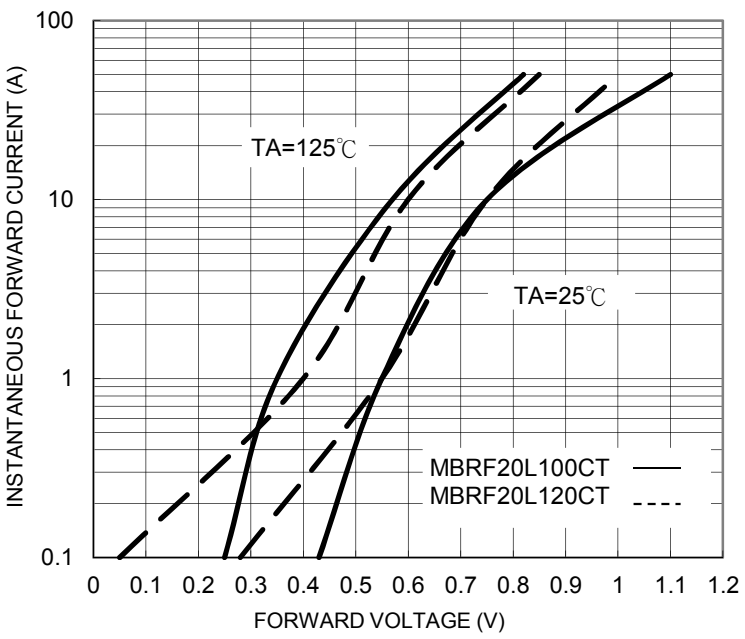


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

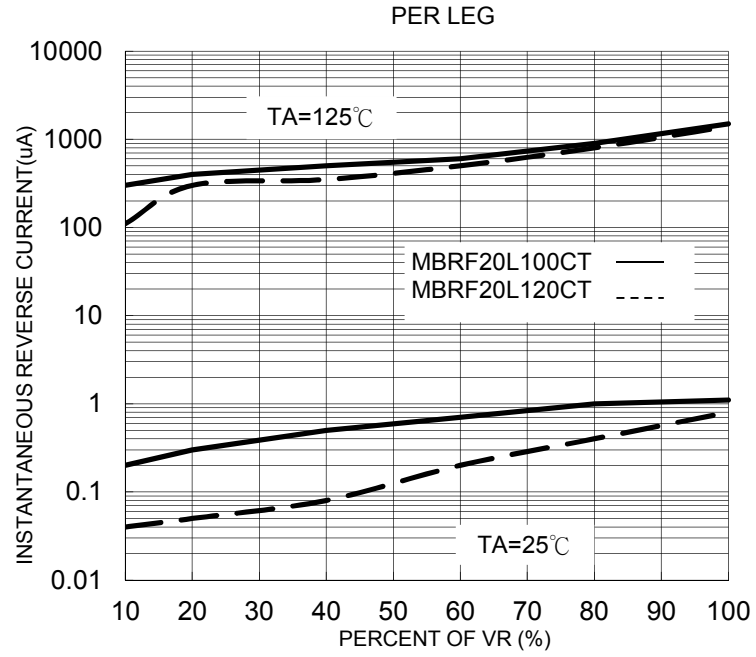


FIG. 5 TYPICAL JUNCTION CAPACITANCE PER LEG

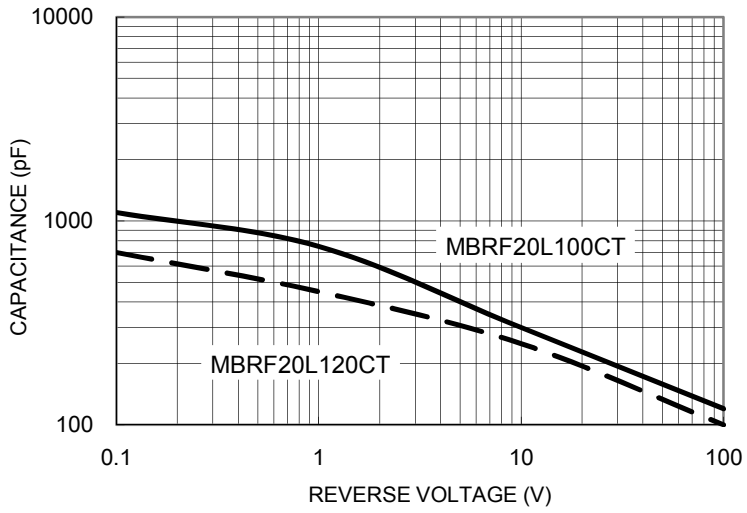
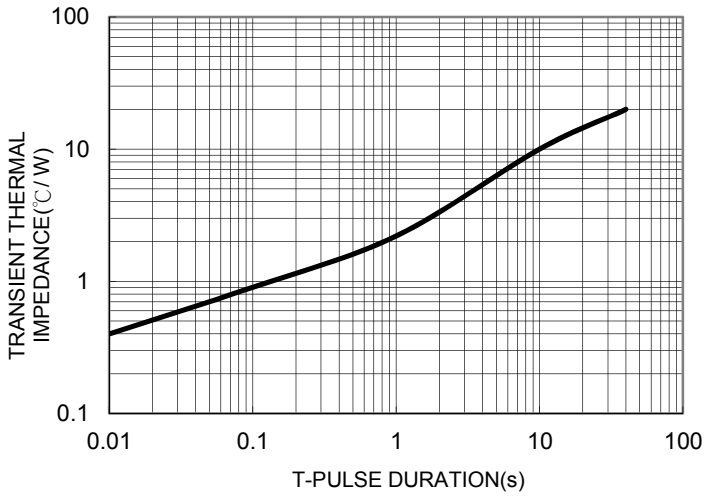
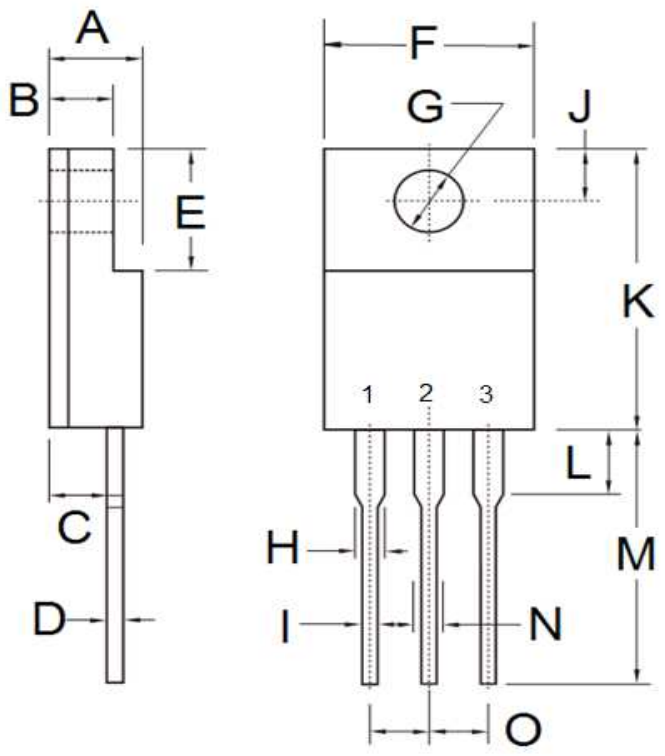


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	4.30	4.70	0.169	0.185
B	2.50	3.16	0.098	0.124
C	2.30	2.96	0.091	0.117
D	0.46	0.76	0.018	0.030
E	6.30	6.90	0.248	0.272
F	9.60	10.30	0.378	0.406
G	3.00	3.40	0.118	0.134
H	0.95	1.45	0.037	0.057
I	0.50	0.90	0.020	0.035
J	2.40	3.20	0.094	0.126
K	14.80	15.50	0.583	0.610
L	-	4.10	-	0.161
M	12.60	13.80	0.496	0.543
N	-	1.80	-	0.071
O	2.41	2.67	0.095	0.105

MARKING DIAGRAM

P/N	= Specific Device Code
G	= Green Compound
YWW	= Date Code
F	= Factory Code