imall

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

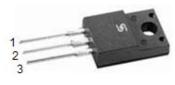
FEATURES

- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- UL Recognized File # E-326243
- 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

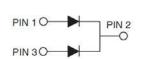
Case: ITO-220AB

Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free 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 g (approximately)





ITO-220AB





PARAMETER	SYMBOL	MBRF30)L120CT	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	120		V
Maximum RMS voltage	V _{RMS}	84		V
Maximum DC blocking voltage	V _{DC}	120		V
Maximum average forward rectified current	I _{F(AV)}	30		А
Peak repetitive forward current (Rated VR, Square wave, 20KHz)	I _{FRM}	30		A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200		A
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1		А
Maximum instantaneous forward voltage (Note 2)		TYP	MAX	
I _F = 15A, T _J =25℃		0.81	0.88	
I _F = 15A, T _J =125℃	V _F	0.66	0.75	V
I _F = 30A, T _J =25℃		0.89	0.95	
I _F = 30A, Τ _J =125°C		0.76	0.82	
Maximum reverse current @ rated VR		TYP	MAX	
T _J =25 ℃	I _R	1.1	20	mA
T_=125 ℃		1.7	25	
Voltage rate of change (Rated V _R)	dV/dt	10000		V/µs
Typical thermal resistance	R _{θJC}	5		°C/W
Operating junction temperature range	TJ	- 55 to +150		°C
Storage temperature range	T _{STG}	- 55 to +150		°C

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



Taiwan Semiconductor

ORDERING INFORMATION						
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
MBRF30L120CT	Prefix "H"	C0	Suffix "G"	ITO-220AB	50 / Tube	

EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
MBRF30L120CT C0	MBRF30L120CT		C0			
MBRF30L120CT C0G	MBRF30L120CT		C0	G	Green compound	
MBRF30L120CTHC0	MBRF30L120CT	Н	CO		AEC-Q101 qualified	

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

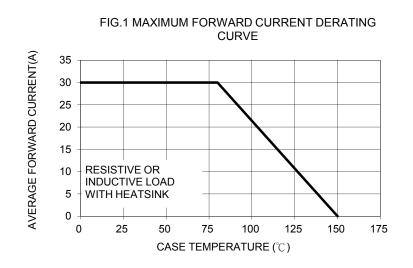


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

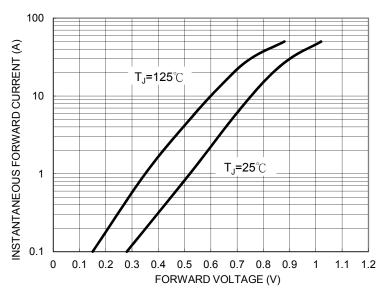


FIG. 2 MAXIMUM FORWARD SURGE CURRENT

NUMBER OF CYCLES AT 60 Hz

FIG. 4 TYPICAL REVERSE CHARACTERISTICS

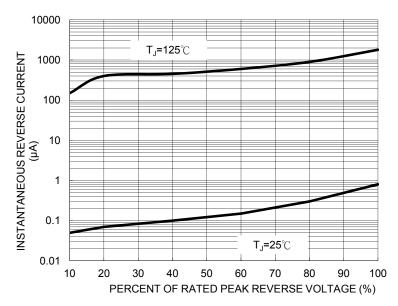
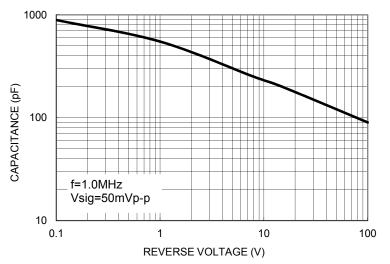
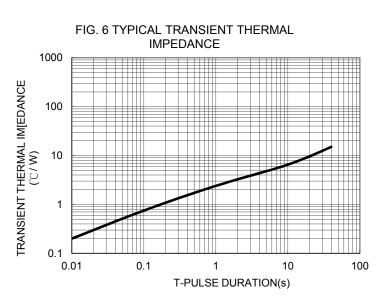


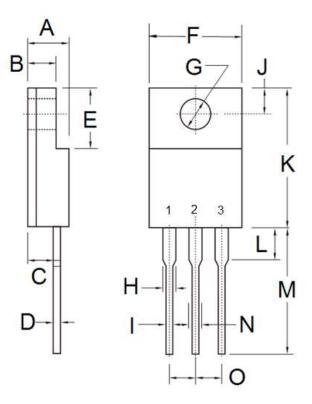


FIG. 5 TYPICAL JUNCTION CAPACITANCE





PACKAGE OUTLINE DIMENSIONS



P/N

YWW F

G

DIM.	Unit	(mm)	Unit (inch)	
	Min	Max	Min	Max
А	4.30	4.70	0.169	0.185
В	2.50	3.16	0.098	0.124
С	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
Н	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
М	12.60	13.80	0.496	0.543
Ν	-	1.80	-	0.071
0	2.41	2.67	0.095	0.105

MARKING DIAGRAM



= Specific Device Code

= Green Compound

= Date Code

= Factory Code



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: D1308019