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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







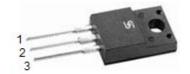




Dual Common Cathode Schottky Rectifier

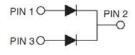
FEATURES

- 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





ITO-220AB





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)

PARAMETER	SYMBOL	MBRF30L45CT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	45	V
Maximum RMS voltage	V_{RMS}	31	V
Maximum DC blocking voltage	V _{DC}	45	V
Maximum average forward rectified current	I _{F(AV)}	30	А
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	220	А
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1	Α
Maximum instantaneous forward voltage (Note 2) I_F = 15A, T_J =25 $^{\circ}$ C I_F = 15A, T_J =125 $^{\circ}$ C I_F = 30A, T_J =25 $^{\circ}$ C I_F = 30A, T_J =125 $^{\circ}$ C	V _F	0.55 0.50 0.74 0.67	V
Maximum reverse current @ rated VR $T_{\rm J} {=} 25~{\rm ^{\circ}C}$ $T_{\rm J} {=} 125~{\rm ^{\circ}C}$	I _R	0.4 200	mA
Voltage rate of change (Rated V _R)	dV/dt	10000	V/µs
Typical thermal resistance	$R_{ heta JC}$	1.0	°C/W
Operating junction temperature range	T _J	- 55 to +150	оС
Storage temperature range	T _{STG}	- 55 to +150	οс

Note 1: tp = 2.0 µs, 1.0KHz

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

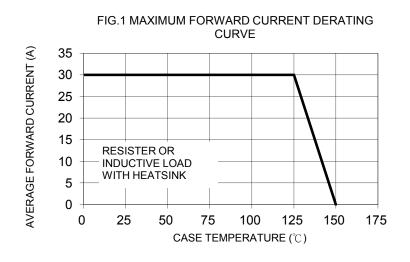


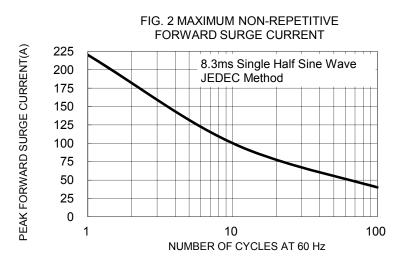
ORDERING INFORMATION						
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
MBRF30L45CT	Prefix "H"	C0	Suffix "G"	ITO-220AB	50 / Tube	

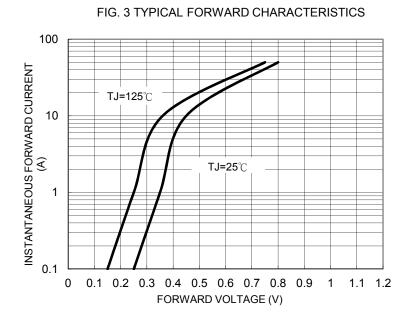
EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
MBRF30L45CT C0	MBRF30L45CT		C0		
MBRF30L45CT C0G	MBRF30L45CT		C0	G	Green compound
MBRF30L45CTHC0	MBRF30L45CT	Н	C0		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







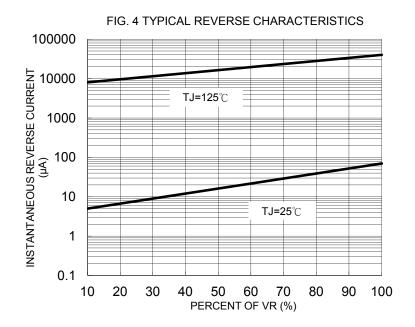
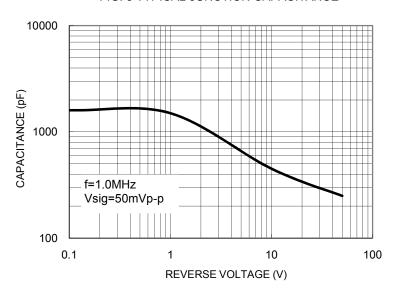
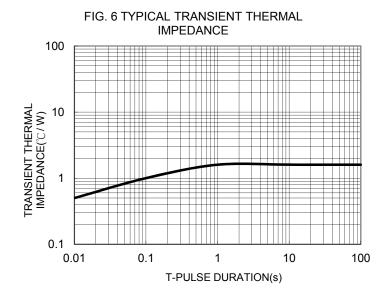


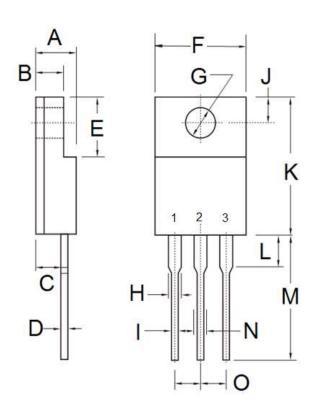


FIG. 5 TYPICAL JUNCTION CAPACITANCE





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
Α	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
N	-	1.80	-	0.071
0	2.41	2.67	0.095	0.105

MARKING DIAGRAM



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

Document Number: DS_D1308021







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Document Number: DS_D1308021 Version: K13