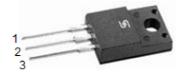




Dual Common Cathode Schottky Rectifier

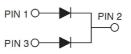
FEATURES

- 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





Version: G1811

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)

MAXIMUM RATINGS AND ELECTRICAL CHAI	RACTERISTICS	$(T_A=25^{\circ}C \text{ unless other})$	erwise noted)	
PARAMETER	SYMBOL	MBRF10L100CT		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)}	10		А
Peak repetitive forward current (Rated VR, Square wave, 20KHz)	I _{FRM}	10		А
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120		А
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1		Α
Maximum instantaneous forward voltage (Note 2)		TYP	MAX	
I_F = 5 A, T_J =25 $^{\circ}$ C		0.73	0.76	
I_F = 5 A, T_J =125 $^{\circ}$ C	V_{F}	0.59	0.65	V
I_F = 10 A, T_J =25 $^{\circ}$ C		0.82	0.85	
I _F = 10 A, T _J =125℃		0.66	0.71	
Maximum reverse current @ rated VR		TYP	MAX	
T _J =25 ℃	I _R	0.3	20	uA
T _J =125 ℃		0.5	15	mA
Voltage rate of change (Rated V _R)	dV/dt	10000		V/µs
Typical thermal resistance	$R_{ heta JC}$	5.5		°C/W
Operating junction temperature range	T _J	- 55 to +150		οС
Storage temperature range	T _{STG}	- 55 to +150 O		οС

Note 1: $tp = 2.0 \mu s$, 1.0KHz

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

Document Number: D1308014



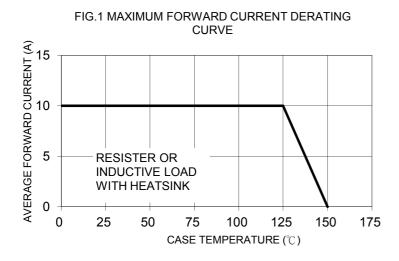


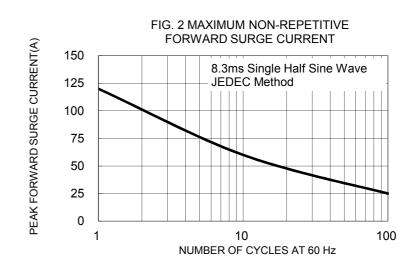
ORDERING INFORMATION					
PART NO.	AEC-Q101	PACKING	GREEN COMPOUND	PACKAGE	PACKING
	QUALIFIED	CODE	CODE		
MBRF10L100CT	Prefix "H"	C0	Suffix "G"	ITO-220AB	50 / Tube

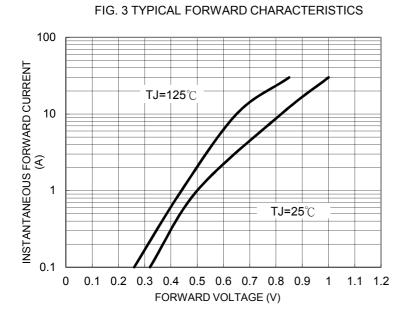
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION	
MBRF10L100CT C0	MBRF10L100CT	QUALIFIED	C0	CODE		
MBRF10L100CT C0G	MBRF10L100CT		C0	G	Green compound	
MBRF10L100CTHC0	MBRF10L100CT	Н	C0		AEC-Q101 qualified	

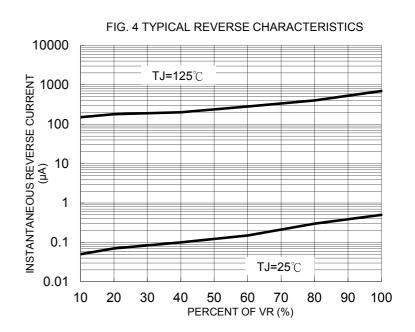
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)









Document Number: D1308014 Version: G1811





FIG. 5 TYPICAL JUNCTION CAPACITANCE

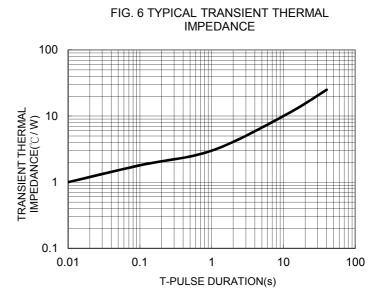
1000

(bd) 300

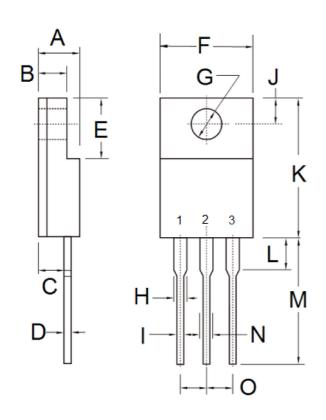
(cd) 400

(ed) 400

(ed



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: D1308014 Version: G1811





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Document Number: D1308014 Version: G1811