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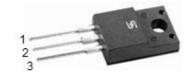




## **Dual Common Cathode Schottky Rectifier**

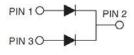
#### **FEATURES**

- 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)

SYMBOL  V <sub>RRM</sub> V <sub>RMS</sub>	MBRF 1035 CT 35	MBRF 1045 CT	1050	MBRF 1060		MBRF	MBRF	MBRF	
V <sub>RRM</sub>	СТ			1060	1000				1
		СТ			1090	10100	10150	10200	UNIT
	35		СТ	СТ	СТ	СТ	СТ	СТ	
$V_{RMS}$		45	50	60	90	100	150	200	V
	24	31	35	42	63	70	105	140	V
$V_{DC}$	35	45	50	60	90	100	150	200	V
I <sub>F(AV)</sub>	10							Α	
I <sub>FRM</sub>	10							Α	
I <sub>FSM</sub>	120							Α	
I <sub>RRM</sub>	0.5							Α	
$V_{F}$	0.	70	0.	80	0.8	85	0.8	88	
	0.	57	0.	65	0.	75	0.	78	V
	0.	80	0.	90	0.9	95	0.9	98	
	0.	67	0.	75	0.8	85	0.8	88	
	0.1								
I <sub>R</sub>	1	5	1	0		į.	5		mA
dV/dt	10000			V/µs					
$R_{ heta JC}$	3.5			°C/W					
T <sub>J</sub>	- 55 to +150						οС		
$T_{STG}$	- 55 to +150						оС		
	$V_{DC}$ $I_{F(AV)}$ $I_{FRM}$ $I_{RRM}$ $V_{F}$ $I_{R}$ $dV/dt$ $R_{\theta JC}$ $T_{J}$	V <sub>DC</sub> 35  I <sub>F(AV)</sub> I <sub>FRM</sub> I <sub>FSM</sub> O.  V <sub>F</sub> O.  O.  I <sub>R</sub> 1  dV/dt  R <sub>θJC</sub> T <sub>J</sub>	V <sub>DC</sub> 35 45  I <sub>F(AV)</sub> I <sub>FRM</sub> I <sub>FSM</sub> 0.70  V <sub>F</sub> 0.57  0.80  0.67  I <sub>R</sub> 15  dV/dt  R <sub>θJC</sub> T <sub>J</sub>	V <sub>DC</sub> 35 45 50  I <sub>F(AV)</sub> I <sub>FRM</sub> I <sub>FSM</sub> 0.70 0.  V <sub>F</sub> 0.57 0. 0.80 0. 0.67 0.  I <sub>R</sub> 15 1  dV/dt  R <sub>θJC</sub> T <sub>J</sub>	V <sub>DC</sub> 35 45 50 60  I <sub>F(AV)</sub> 1  I <sub>FRM</sub> 12  I <sub>FSM</sub> 0  V <sub>F</sub> 0.57 0.65 0.80 0.90 0.67 0.75  I <sub>R</sub> 0  I <sub>R</sub> 0  I <sub>R</sub> 0  I <sub>S</sub> 0  I <sub>R</sub> 0  I <sub>S</sub> 0  I <sub>R</sub> 0  I <sub>S</sub> 0  I <sub>S</sub> 0  I <sub>S</sub> 0  I <sub>R</sub> 0  I <sub>S</sub>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	V <sub>DC</sub> 35         45         50         60         90         100           I <sub>FRM</sub> 10         10         10         10         10         10         120	V <sub>DC</sub> 35         45         50         60         90         100         150           I <sub>F(AV)</sub> 10         10	V <sub>DC</sub> 35         45         50         60         90         100         150         200           I <sub>F(AV)</sub> 10         10         10         10         120

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

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

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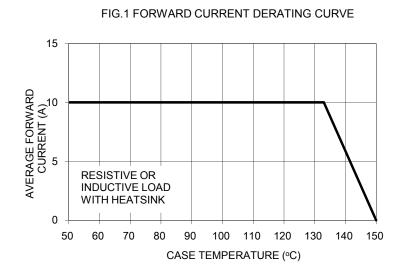
ORDERING INFORMATION						
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
MBRF10xxCT (Note 1)	Prefix "H"	C0	Suffix "G"	ITO-220AB	50 / Tube	

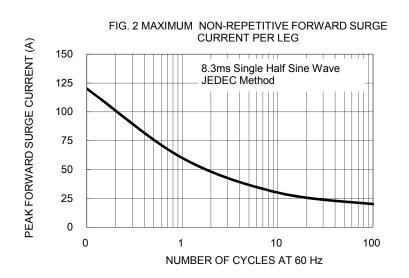
Note 1: "xx" defines voltage from 35V (MBRF1035CT) to 200V (MBRF10200CT)

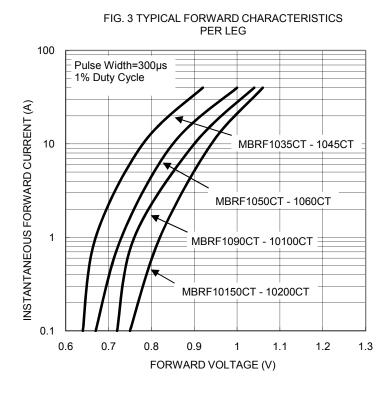
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
MBRF1060CT C0	MBRF1060CT		C0				
MBRF1060CT C0G	MBRF1060CT		C0	G	Green compound		
MBRF1060CTHC0	MBRF1060CT	Н	C0		AEC-Q101 qualified		

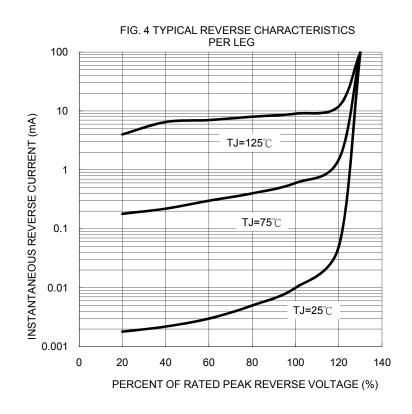
#### **RATINGS AND CHARACTERISTICS CURVES**

(TA=25°C unless otherwise noted)



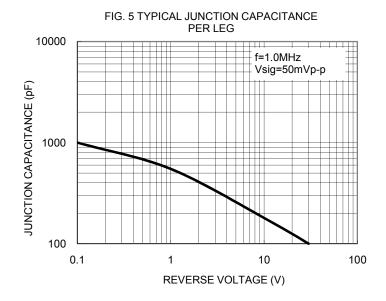


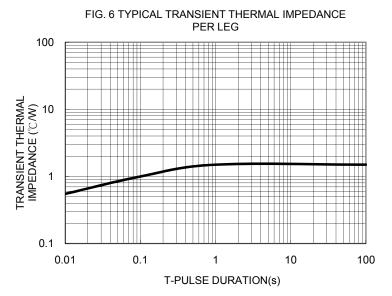




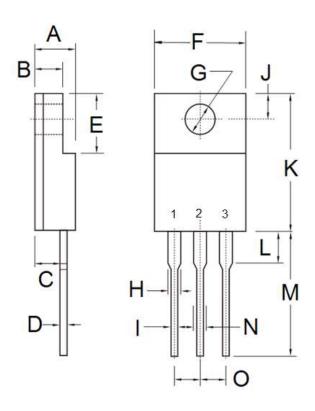








### PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
Dilvi.	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	
Е	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

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Taiwan Semiconductor

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