



## **Dual Common Cathode Schottky Rectifier**

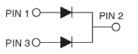
## **FEATURES**

- 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)

2035 CT 35	MBRF 2045 CT	MBRF 2050		MBRF	MBRF	MBRF	MEDE	MDDE	1
<b>CT</b> 35		2050	2010				INDKI	INBKE	
35	СТ		2060	2080	2090	20100	20150	20200	UNIT
		СТ	СТ	СТ	СТ	СТ	СТ	СТ	
1	45	50	60	80	90	100	150	200	V
24	31	35	42	56	63	70	105	140	V
35	45	50	60	80	90	100	150	200	V
				20					Α
				20					Α
150			Α						
	1				0.5				Α
0. 0.	57 84	0. 0.	70 95	0.80 0.65 1.00	0. 0.	75 95	0. 1.	85 05	V
1	5	1	0	30		5	2	2	mA
10000			V/µs						
1500			V						
1.5 3.5			°C/W						
- 55 to +150		οС							
- 55 to +150			°С						
	0. 0. 0.	1 0.80 0.57 0.84 0.72	1 0.80 0.8 0.57 0.7 0.84 0.9 0.72 0.8	1 0.80 0.80 0.57 0.70 0.84 0.95 0.72 0.85 15 10	20 20 150 1 0.80 0.57 0.70 0.65 0.84 0.95 1.00 0.72 0.85 0.75 0.1 15 10 30 10000 1500	20 20 150 1 0.80 0.80 0.80 0.57 0.70 0.65 0.84 0.95 1.00 0.72 0.85 0.75 0.1 15 10 30 10000 1500	20  150  1 0.80 0.80 0.80 0.80 0.80 0.65 0.57 0.70 0.65 0.75 0.84 0.95 1.00 0.95 0.72 0.85 0.1  15 10 30 5 10000 1500  1.5 3.5 - 55 to +150	20  150  1 0.80 0.80 0.80 0.57 0.70 0.65 0.84 0.95 1.00 0.72 0.85 0.75 0.85 0.1  15 10 30 5 10000  1500	20  150  1 0.80 0.80 0.80 0.80 0.65 0.57 0.70 0.65 0.84 0.95 0.75 0.85 0.75 0.85 0.72 0.85 0.75 0.85 0.95 0.1  15 10 30 5 2 10000 1500

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

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

Document Number: D1308017 Version: N13



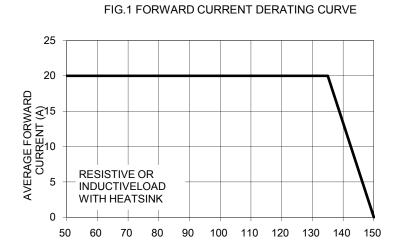
ORDERING INFORMATION						
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
MBRF20xxCT (Note 1)	Prefix "H"	C0	Suffix "G"	ITO-220AB	50 / Tube	

Note 1: "xx" defines voltage from 35V (MBRF2035CT) to 200V (MBRF20200CT)

EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND	DESCRIPTION		
MBRF2060CT C0	MBRF2060CT		C0				
MBRF2060CT C0G	MBRF2060CT		C0	G	Green compound		
MBRF2060CTHC0	MBRF2060CT	Н	C0		AEC-Q101 qualified		

## **RATINGS AND CHARACTERISTICS CURVES**

(TA=25°C unless otherwise noted)

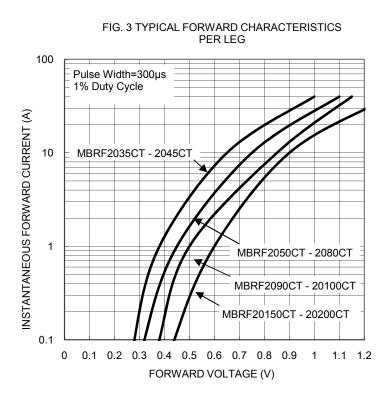


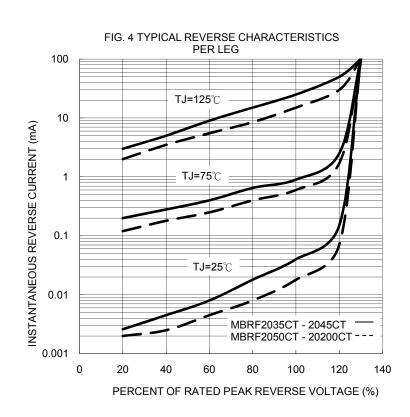
CASE TEMPERATURE (°C)

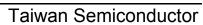
FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

150
8.3ms Single Half Sine Wave JEDEC Method

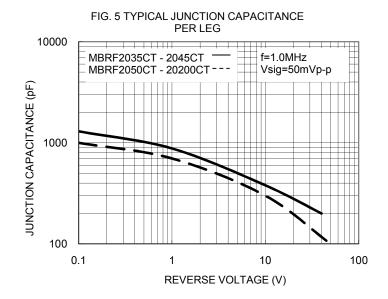
100
75
50
1 10 10 100
NUMBER OF CYCLES AT 60 Hz

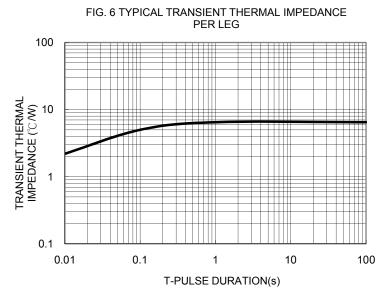




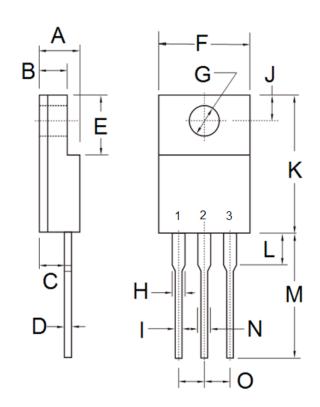








## **PACKAGE OUTLINE DIMENSIONS**



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	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	
Η	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





Taiwan Semiconductor

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