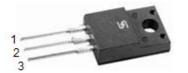




Dual Common Cathode Schottky Rectifier

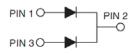
FEATURES

- 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)

DADAMETED	SYMBOL	MBRF	MBRF	MBRF	UNIT
PARAMETER		10H100CT	10H150CT	10H200CT	
Maximum repetitive peak reverse voltage	V_{RRM}	100	150	200	V
Maximum RMS voltage	V_{RMS}	70	105	140	V
Maximum DC blocking voltage	V_{DC}	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	10			Α
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	0.5	Α
Maximum instantaneous forward voltage (Note 2) I_F = 5 A, T_J =25 $^{\circ}$ C I_F = 5 A, T_J =125 $^{\circ}$ C	V _F	0.85 0.75		88 75	V
I _F = 10 A, T _J =25℃ I _F = 10 A, T _J =125℃	٢	0.95 0.85	0.75 0.97 0.85		
Maximum reverse current @ rated VR T $_{\rm J}$ =25 $^{\circ}{\rm C}$ T $_{\rm J}$ =125 $^{\circ}{\rm C}$	I _R	5 1			μA mA
Voltage rate of change (Rated V _R)	dV/dt	10000		V/µs	
Typical thermal resistance	R _{θJC}	3.5		°C/W	
Operating junction temperature range	TJ	- 55 to +175		οС	
Storage temperature range	T _{STG}	- 55 to +175		οС	

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

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

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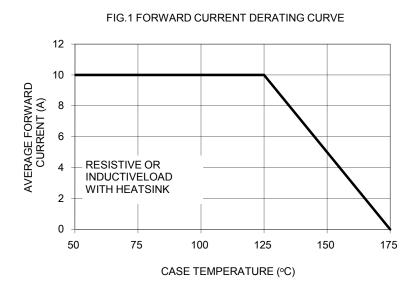
ORDERING INFORMATION						
PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
	QUALIFIED		CODE			
MBRF10HxxxCT (Note 1)	Prefix "H"	C0	Suffix "G"	ITO-220AB	50 / Tube	

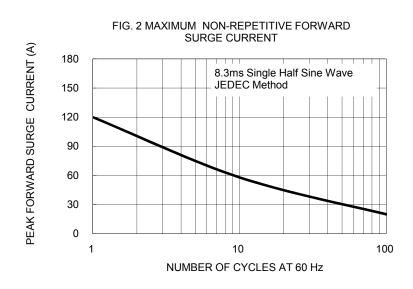
Note 1: "xxx" defines voltage from 100V (MBRF10H100CT) to 200V (MBRF10H200CT)

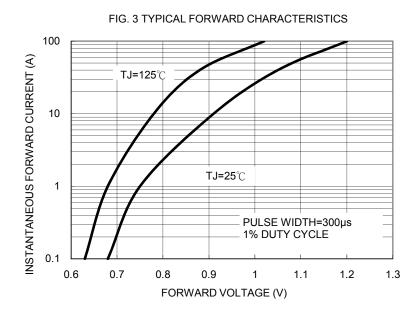
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION	
MBRF10H100CT C0	MBRF10H100CT		C0			
MBRF10H100CT C0G	MBRF10H100CT		C0	G	Green compound	
MBRF10H100CTHC0	MBRF10H100CT	Н	C0		AEC-Q101 qualified	

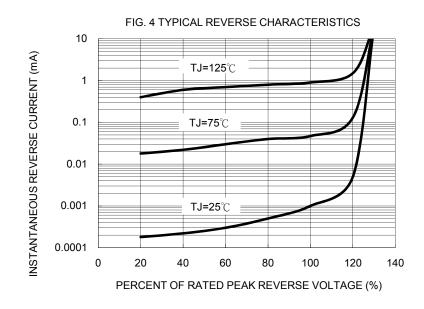
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)









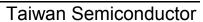
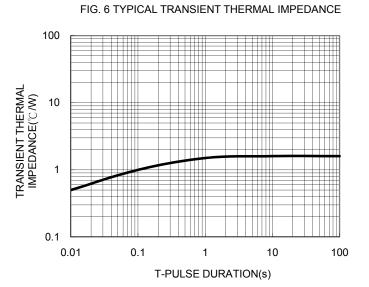
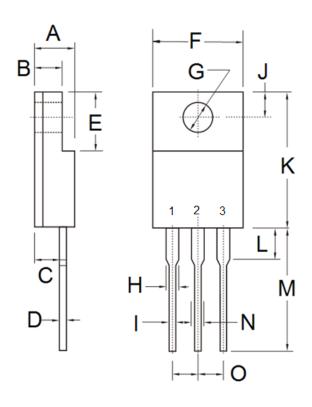




FIG. 5 TYPICAL JUNCTION CAPACITANCE 1000 900 800 JUNCTION CAPACITANCE (pF) 700 600 500 400 300 200 100 0.1 10 100 1 REVERSE VOLTAGE (V)



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	
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	ı	4.10	ı	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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