

Dual Common Cathode Schottky Rectifier

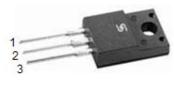
FEATURES

- 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

MECHANICAL DATA

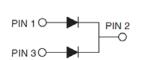
Case: ITO-220AB

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)





ITO-220AB





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise 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		A		
Peak repetitive forward current (Rated VR, Square wave, 20KHz)	I _{FRM}	10		A		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120		A		
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1		A		
Maximum instantaneous forward voltage (Note 2)		TYP	MAX			
I _F = 5 A, T _J =25℃		0.73	0.76			
I _F = 5 A, T _J =125℃	V _F	0.59	0.65	V		
I _F = 10 A, T _J =25℃		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	mA		
T _J =125 ℃		0.5	15			
Voltage rate of change (Rated V _R)	dV/dt	10000		V/µs		
Typical thermal resistance	R _{θJC}	5.5		°C/W		
Operating junction temperature range	TJ	- 55 to +150		°C		
Storage temperature range	T _{STG}	- 55 to +150		0 ⁰		
Note 1: tp = 2.0 µs, 1.0KHz						

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



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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
		QUALIFIED		CODE	
MBRF10L100CT C0	MBRF10L100CT		C0		
MBRF10L100CT C0G	MBRF10L100CT		C0	G	Green compound
MBRF10L100CTHC0	MBRF10L100CT	Н	C0		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

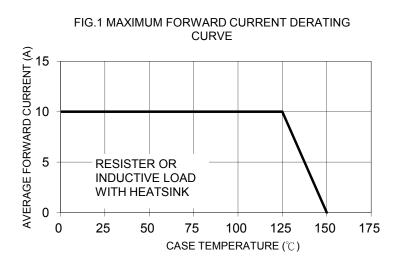
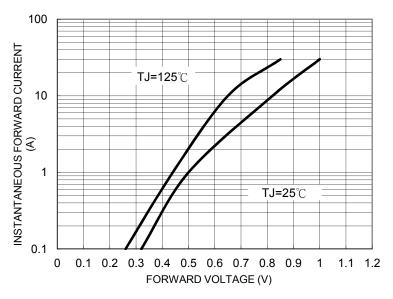
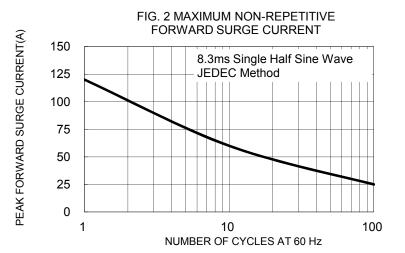
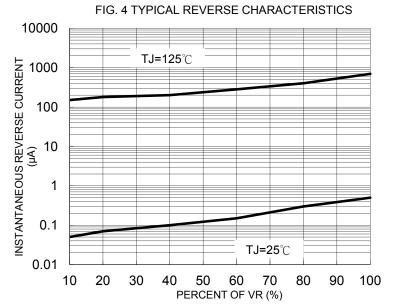


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

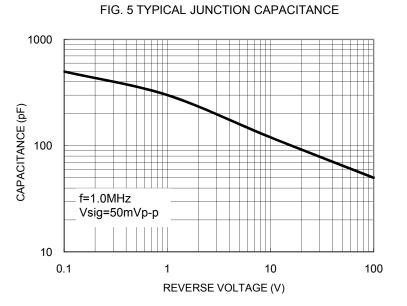


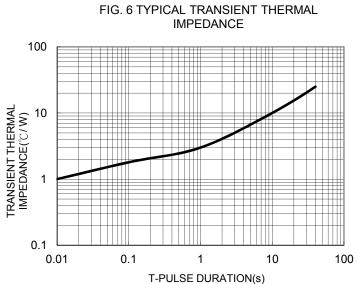




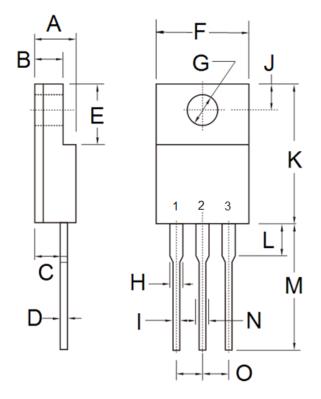


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PACKAGE OUTLINE DIMENSIONS



P/N

G

F

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

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound
- YWW = Date Code
 - = Factory Code



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