



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: TO-247AD (TO-3P)

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

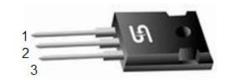
Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 10 in-lbs maximum

Weight: 6.1 g (approximately)











MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°ℂ unless otherwise noted)										
		MBR	MBR	MBR	MBR	MBR	MBR	MBR	MBR	
PARAMETER	SYMBOL	3035	3045	3050	3060	3090	30100	30150	30200	UNIT
		PT	PT	PT	PT	PT	PT	PT	PT	
Maximum repetitive peak reverse voltage	V_{RRM}	35	45	50	60	90	100	150	200	V
Maximum RMS voltage	V_{RMS}	24	31	35	42	63	70	105	140	V
Maximum DC blocking voltage	V_{DC}	35	45	50	60	90	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	30			Α					
Peak repetitive forward current (Rated V _R , Square wave, 20KHz)	I _{FRM}	30 A					Α			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200					Α			
Peak repetitive reverse surge Current (Note 1)	I _{RRM}	2 1				Α				
Maximum instantaneous forward voltage (Note 2)										
I _F =15A, T _J =25°C		-	-		75		85	0.95	1.05	
I _F =15A, T _J =125°C	V_{F}	0.0	60	0.	65	0.	75	0.92	-	V
I _F =30A, T _J =25°C		0.8	82		-		-	1.02	1.10	
I _F =30A, T _J =125℃		0.	73		_		_	0.98	-	
Maximum reverse current @ rated VR T _J =25 ℃	I _R	1			0.5	0.5 0.1		mA		
T _J =125 ℃		2	0	1	5		1	0		
Voltage rate of change,(Rated V _R)	dV/dt	10,000			V/µs					
Typical thermal resistance	$R_{ heta JC}$	1.4 °C/			°C/W					
Operating junction temperature range	T_J	- 55 to +150 °C			οС					
Storage temperature range	T _{STG}	- 55 to +150 °C								

Note 1: 2.0µs Pulse Width, f=1.0KHz

Note 2: Pulse Test: 300µs Pulse Width, 1% Duty Cycle



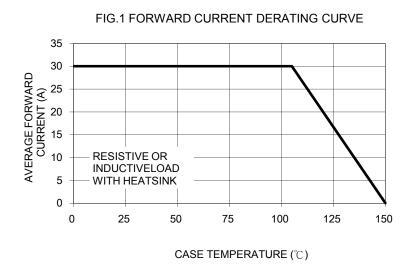
ORDERING INFORMATION						
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
MBR30xxPT (Note 1)	Prefix "H"	CO	Suffix "G"	TO-3P	30 / Tube	

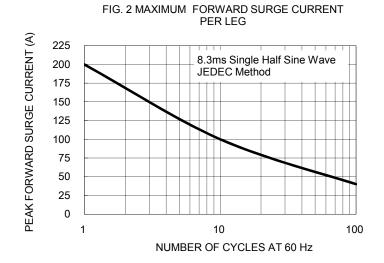
Note 1: "xx" defines voltage from 35V (MBR3035PT) to 200V (MBR30200PT)

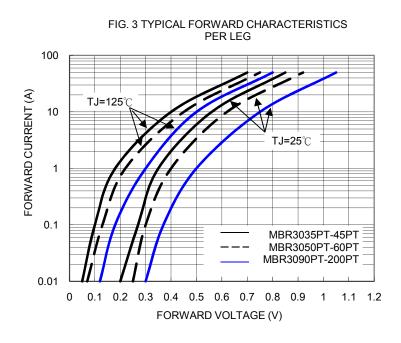
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION		
		QUALIFIED	TACKING CODE	CODE			
MBR3060PT C0	MBR3060PT		C0				
MBR3060PT C0G	MBR3060PT		C0	G	Green compound		
MBR3060PTHC0	MBR3060PT	Н	C0		AEC-Q101 qualified		

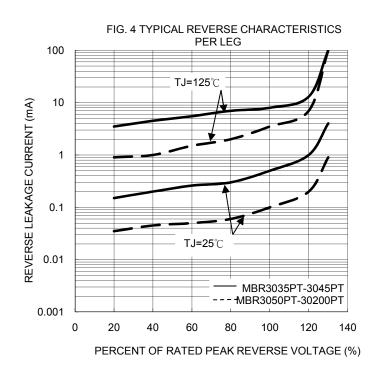
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



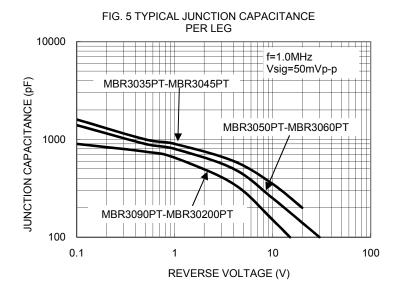


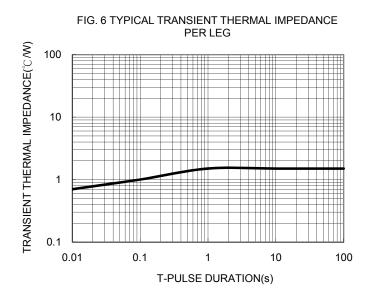




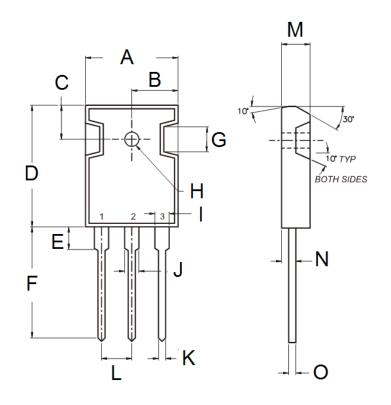








PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	Max	Min	Max		
Α	15.90	16.40	0.626	0.646		
В	7.90	8.20	0.311	0.323		
С	5.70	6.20	0.224	0.244		
D	20.80	21.30	0.819	0.839		
E	3.50	4.10	0.138	0.161		
F	19.70	20.20	0.776	0.795		
G	-	4.30	-	0.169		
Н	2.90	3.40	0.114	0.134		
I	1.93	2.18	0.076	0.086		
J	2.97	3.22	0.117	0.127		
K	1.12	1.22	0.044	0.048		
L	5.20	5.70	0.205	0.224		
М	4.90	5.16	0.193	0.203		
N	2.70	3.00	0.106	0.118		
0	0.51	0.76	0.020	0.030		

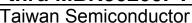
MARKING DIAGRAM



P/N = Marking Code G = Green Compound YWW = Date Code

= Factory Code







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