

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)

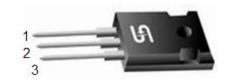
Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

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

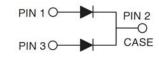
Polarity: As marked

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	2035	2045	2050	2060	2090	20100	20150	20200	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)}	20 A				Α				
Peak repetitive forward current (Rated V _R , Square wave, 20KHz)	I _{FRM}	20 A					Α			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150 A					Α			
Peak repetitive reverse surge Current (Note 1)	I _{RRM}	1.0 0.5				Α				
Maximum instantaneous forward voltage (Note 2)										
I _F =10A, T _J =25℃		,	-	0.	80		85	0.	95	
I _F =10A, T _J =125℃	V_{F}	0.	57	0.	70	0.	75	0.	92	V
I _F =20A, T _J =25°C		0.	84	0.	95	0.	95	1.	02	
I _F =20A, T _J =125°C		0.72 0.85 0.85 0.98		98						
Maximum reverse current @ rated VR T _J =25 °C		0.1				A				
T _J =125 ℃		1	10 5				mA			
Voltage rate of change,(Rated V _R)	dV/dt	10,000 V/µs					V/µs			
Typical thermal resistance	$R_{ heta JC}$	1 °C/W								
Operating junction temperature range	T_J	- 55 to +150 °C								
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

Document Number: DS_D1309026



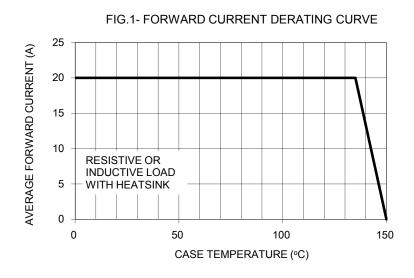
ORDERING INFORMATION						
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	GE PACKING	
MBR20xxPT (Note 1)	Prefix "H"	C0	Suffix "G"	TO-3P	30 / Tube	

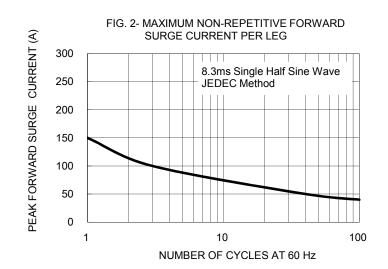
Note 1: "xx" defines voltage from 35V (MBR2035PT) to 200V (MBR20200PT)

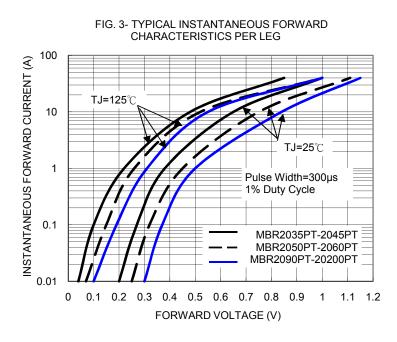
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION		
·		QUALIFIED		CODE			
MBR2060PT C0	MBR2060PT		C0				
MBR2060PT C0G	MBR2060PT		C0	G	Green compound		
MBR2060PTHC0	MBR2060PT	Н	C0		AEC-Q101 qualified		

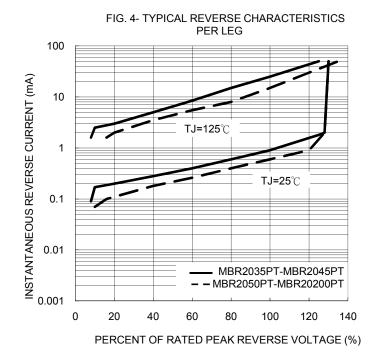
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

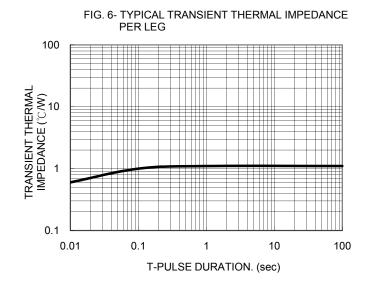




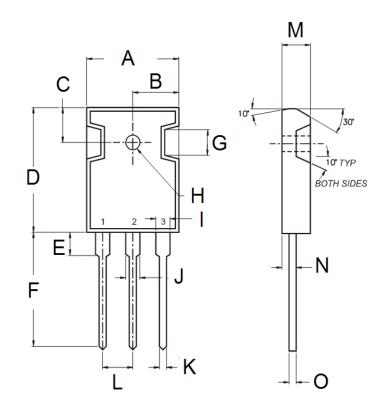








PACKAGE OUTLINE DIMENSIONS



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	
Е	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	
Ν	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
F = Factory Code

Document Number: DS_D1309026



Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied,to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or seling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D1309026 Version: G13

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Micro Commercial Components (MCC) manufacturer:

Other Similar products are found below:

CUS06(TE85L,Q,M) MA4E2039 D1FH3-5063 MBR0530L-TP MBR10100CT-BP MBR30H100MFST1G MMBD301M3T5G PMAD1103-LF PMAD1108-LF RB160M-50TR RB520S-30 RB551V-30 DD350N18K DZ435N40K DZ600N16K BAS16E6433HTMA1 BAS 3010S-02LRH E6327 BAT 54-02LRH E6327 IDL02G65C5XUMA1 NSR05F40QNXT5G NSVR05F40NXT5G JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W SBAT54CWT1G SBM30-03-TR-E SBS818-TL-E SK32A-LTP SK33A-TP SK34A-TP SK34B-TP SMD1200PL-TP ACDBN160-HF SS3003CH-TL-E STPS30S45CW PDS3100Q-7 GA01SHT18 CRS10I30A(TE85L,QM MBR1240MFST1G MBRB30H30CT-1G BAS28E6433HTMA1 BAS 70-02L E6327 HSB123JTR-E JANTX1N5712-1 VS-STPS40L45CW-N3 DD350N12K SB007-03C-TB-E SB10015M-TL-E SB1003M3-TL-E SK110-LTP