imall

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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)

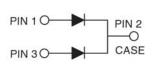
Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test with prefix "H" on packing 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)										
PARAMETER	SYMBOL	MBR 4035	MBR 4045	MBR 4050	MBR 4060	MBR 4090	MBR 40100	MBR 40150	мвк 40200	UNIT
		PT	PT	PT	PT	PT	PT	PT	PT	UNIT
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)}		40				А			
Peak repetitive forward current (Rated V _R , Square wave, 20KHz)	I _{FRM}	40 A					A			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	330 A					А			
Peak repetitive reverse surge Current (Note 1)	I _{RRM}		2		1				А	
Maximum instantaneous forward voltage (Note 2) I _F =20A, T _J =25 $^{\circ}$ C I _F =20A, T _J =125 $^{\circ}$ C I _F =40A, T _J =25 $^{\circ}$ C	V _F	0.	75 65 80	-	77 67 -		84 74 -	0.	90 80 01	V
I _F =40A, T _J =125℃		0.	75		-		-		-	
Maximum reverse current @ rated VR T _J =25 $^{\circ}$ C	1	1.0			0.5		0.1			
T 」=125 ℃	I _R	30		2	20 1		10		mA	
Voltage rate of change (Rated V _R)	dV/dt	10,000			V/µs					
Typical thermal resistance	R _{θJC}	1.2 0				^o C/W				
Operating junction temperature range	TJ	- 55 to + 150			OO					
Storage temperature range	T _{STG}	- 55 to + 150			°C					

Note 1: 2.0 μ s Pulse Width, f=1.0KHz

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



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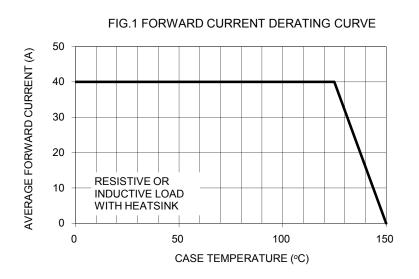
ORDERING INFORMATION							
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING		
MBR40xxPT (Note 1)	Prefix "H"	CO	Suffix "G"	TO-3P	30 / Tube		
Note 1, www.defines.velters.from 25// (MDD4025DT) to 200// (MDD40200DT)							

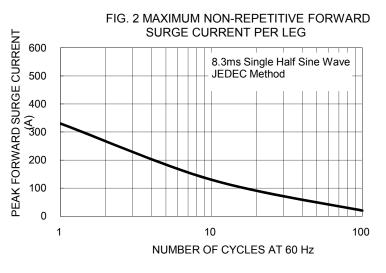
Note 1: "xx" defines voltage from 35V (MBR4035PT) to 200V (MBR40200PT)

EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESCRIPTION		
		QUALIFIED		CODE			
MBR4060PT C0	MBR4060PT		C0				
MBR4060PT C0G	MBR4060PT		C0	G	Green compound		
MBR4060PTHC0	MBR4060PT	Н	C0		AEC-Q101 qualified		

RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^{\circ}$ C unless otherwise noted)





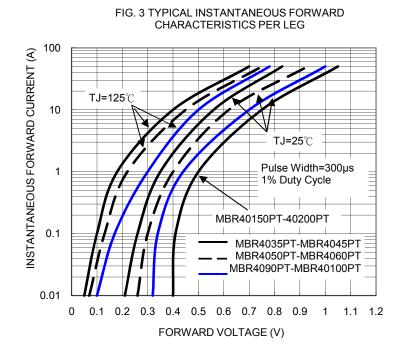
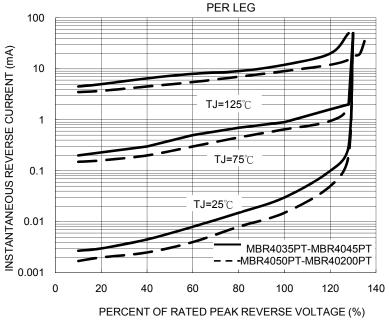
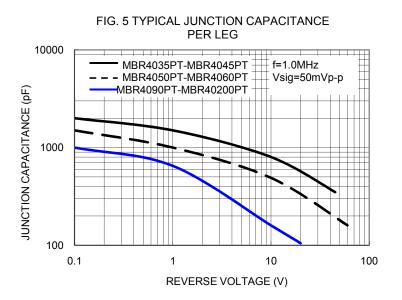
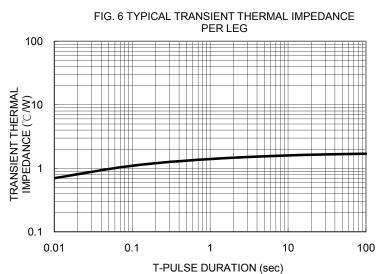


FIG.4 TYPICAL REVERSE CHARACTERISTICS

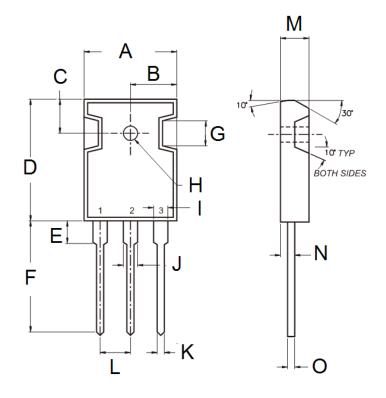








PACKAGE OUTLINE DIMENSIONS



P/N

YWW

G

F

DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
А	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	
Ν	2.70	3.00	0.106	0.118	
0	0.51	0.76	0.020	0.030	

MARKING DIAGRAM



= Marking Code

= Green Compound

= Date Code

= Factory Code

Document Number: DS_D1309031

MBR4035PT thru MBR40200PT

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