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Dual Common Cathode Schottky Rectifier

FEATURES

- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition







PIN 1 0-



MECHANICAL DATA

Case: TO-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:** 1.88 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25℃ unless otherwise noted)											
		MBR	MBR	MBR	MBR	MBR	MBR	MBR			
PARAMETER	SYMBOL	1535	1545	1550	1560	1590	15100	15150	UNIT		
		СТ	СТ	СТ	СТ	СТ	СТ	СТ			
Maximum repetitive peak reverse voltage	V_{RRM}	35	45	50	60	90	100	150	V		
Maximum RMS voltage	V_{RMS}	24	31	35	42	63	70	105	V		
Maximum DC blocking voltage	V_{DC}	35	45	50	60	90	100	150	V		
Maximum average forward rectified current	I _{F(AV)}				15				Α		
Peak repetitive forward current (Rated VR, Square wave, 20KHz)	I _{FRM}	15 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 0.5				Α					
Maximum instantaneous forward voltage (Note 2) I_F =7.5A, T_J =25 $^{\circ}$ C I_F =7.5A, T_J =125 $^{\circ}$ C I_F =15A, T_J =25 $^{\circ}$ C	V _F		- 57		75 65		92 82	1.05 0.92	V		
I _F =15A, T _J =125℃			84 72		-		-	-			
Maximum reverse current @ rated VR T _J =25 ℃	,	0	.5	0	.3		0.1		^		
T _J =125 ℃	I _R	1	0	7	.5		5.0	mA			
Voltage rate of change (Rated V _R)	dV/dt	10000 V/μs					V/µs				
Typical thermal registance	$R_{ heta JC}$	1.5							0000		
Typical thermal resistance	$R_{\theta JA}$				10				°C/W		
Operating junction temperature range	T_J	- 55 to +150			οС						
Storage temperature range	T _{STG}			-	55 to +15	50			οС		

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

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

Document Number: DS_D1308062



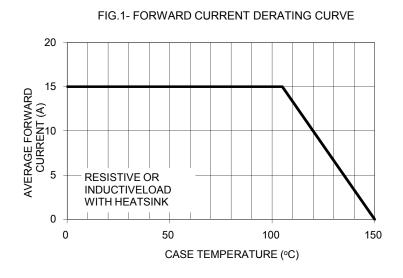
ORDERING INFORMATION						
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
MBR15xxCT (Note 1)	Prefix "H"	C0	Suffix "G"	TO-220AB	50 / Tube	

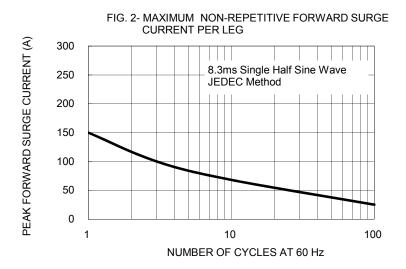
Note 1: "xx" defines voltage from 35V (MBR1535CT) to 150V (MBR15150CT)

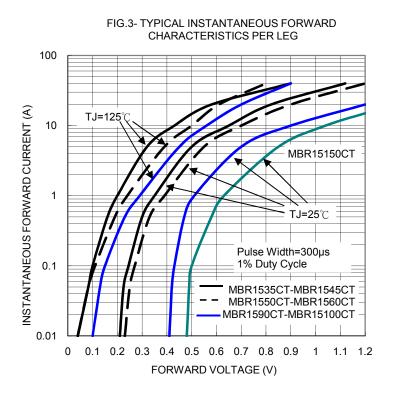
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
MBR1560CT C0	MBR1560CT		C0				
MBR1560CT C0G	MBR1560CT		C0	G	Green compound		
MBR1560CTHC0	MBR1560CT	Н	C0		AEC-Q101 qualified		

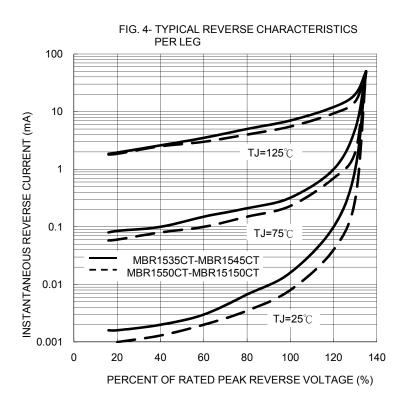
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)



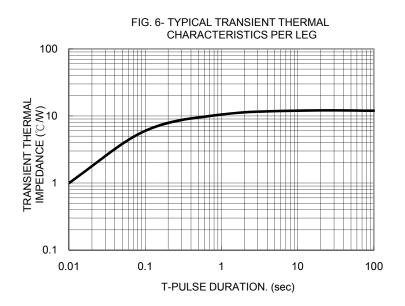




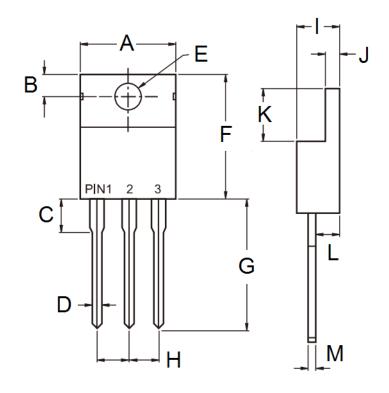








PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min Max		Min	Max	
Α	-	10.50	-	0.413	
В	2.62	3.44	0.103	0.135	
С	2.80	4.20	0.110	0.165	
D	0.68	0.94	0.027	0.037	
Е	3.54	4.00	0.139	0.157	
F	14.60	16.00	0.575	0.630	
G	13.19	14.79	0.519	0.582	
Н	2.41	2.67	0.095	0.105	
I	4.42	4.76	0.174	0.187	
J	1.14	1.40	0.045	0.055	
K	5.84	6.86	0.230	0.270	
L	2.20	2.80	0.087	0.110	
М	0.35	0.64	0.014	0.025	

MARKING DIAGRAM



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

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