



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 O-



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:** 1.9 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°ℂ unless otherwise noted)								
	MBR	MBR	MBR	MBR	MBR	MBR	MBR	
SYMBOL	2535	2545	2550	2560	2590	25100	25150	UNIT
	СТ	СТ	СТ	СТ	СТ	СТ	СТ	
V_{RRM}	35	45	50	60	90	100	150	V
V_{RMS}	24	31	35	42	63	70	105	V
V_{DC}	35	45	50	60	90	100	150	V
I _{F(AV)}	25			Α				
I _{FRM}	25 A					Α		
I _{FSM}	200 A					Α		
I _{RRM}	1 0.5				Α			
		-	0.	75	0.	85	0.95	
V_{F}		-	0.	65	0.	75	0.92	V
	0.	82		-	0.	92	1.02	
	0.	73		-	0.	88	0.98	
	0	.2	0	.2	0	.1	0.1	1
IR	1	5	1	0	7	.5	5	mA
dV/dt	10000			V/µs				
$R_{ heta JC}$	1.0 °C,			°C/W				
TJ				οС				
T _{STG}	- 55 to +150 °C			оС				
	SYMBOL VRRM VRMS VDC IF(AV) IFRM VF IRRM VF	SYMBOL 2535 CT V _{RRM} 35 V _{RMS} 24 V _{DC} 35 I _{F(AV)} I _{FRM} V _F 0. 0. 1 _R 1 _R 1 dV/dt R _{θJC} T _J	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	MBR MBR MBR MBR SYMBOL 2535 2545 2550 CT CT CT CT V _{RMS} 35 45 50 V _{DC} 35 45 50 I _{F(AV)} - 0 I _{FRM} 1 - 0 V _F - 0 0 0.82 0.73 - 0 I _R 15 1 dV/dt R _{θJC} - - T _J - - - - - 0 - - 0.82 0 - 0.73 - - 0 15 1 -	SYMBOL MBR 2535 2545 2550 2560 2560 2560 CT CT CT CT CT CT CT C	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c } \hline \textbf{SYMBOL} & \textbf{MBR} & \textbf{MBR} & \textbf{MBR} & \textbf{MBR} & \textbf{MBR} & \textbf{MBR} & \textbf{2530} & \textbf{2540} & \textbf{2590} & \textbf{25100} \\ \hline \textbf{CT} & \textbf{CT} & \textbf{CT} & \textbf{CT} & \textbf{CT} & \textbf{CT} & \textbf{CT} \\ \hline \textbf{V}_{RRM} & 35 & 45 & 50 & 60 & 90 & 100 \\ \hline \textbf{V}_{RMS} & 24 & 31 & 35 & 42 & 63 & 70 \\ \hline \textbf{V}_{DC} & 35 & 45 & 50 & 60 & 90 & 100 \\ \hline \textbf{I}_{F(AV)} & & & & & & & & & \\ \hline \textbf{I}_{FRM} & & & & & & & & & \\ \hline \textbf{I}_{FRM} & & & & & & & & & \\ \hline \textbf{I}_{RRM} & & 1 & & & & & & \\ \hline \textbf{V}_{F} & & & & & & & & & \\ \hline \textbf{0.82} & & - & & & & & & \\ \hline \textbf{0.82} & & - & & & & & & \\ \hline \textbf{0.75} & & & & & & & & \\ \hline \textbf{0.82} & & - & & & & & \\ \hline \textbf{0.73} & & & - & & & & \\ \hline \textbf{0.82} & & - & & & & & \\ \hline \textbf{0.75} & & & & & & & \\ \hline \textbf{0.82} & & - & & & & \\ \hline \textbf{0.73} & & & - & & & & \\ \hline \textbf{0.84} & & & & & & & \\ \hline \textbf{1}_{R} & & & & & & & \\ \hline \textbf{1}_{S} & & & & & & & \\ \hline \textbf{1}_{S} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & & & \\ \hline \textbf{1}_{O} & & & & \\ \hline \textbf{1}_{O} & & & & & \\ \hline \textbf{1}_{O} & & & & \\$	SYMBOL MBR 2535 MBR 2545 MBR 2550 MBR 2550 MBR 2550 MBR 2550 MBR 25100 MBR 25150 MBR 25

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

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

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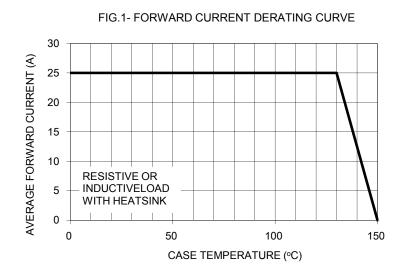
ORDERING INFORMATION						
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
MBR25xxCT (Note 1)	Prefix "H"	C0	Suffix "G"	TO-220AB	50 / Tube	

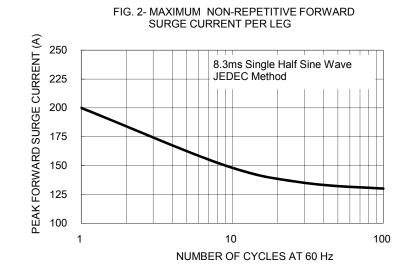
Note 1: "xx" defines voltage from 35V (MBR2535CT) to 150V (MBR25150CT)

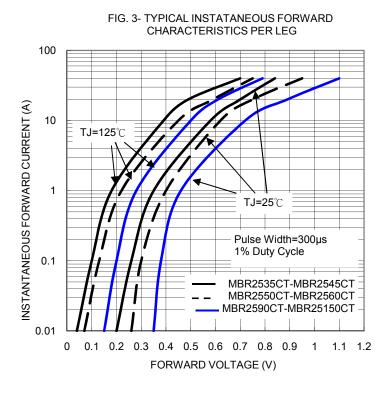
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
MBR2560CT C0	MBR2560CT		C0				
MBR2560CT C0G	MBR2560CT		C0	G	Green compound		
MBR2560CTHC0	MBR2560CT	Н	C0		AEC-Q101 qualified		

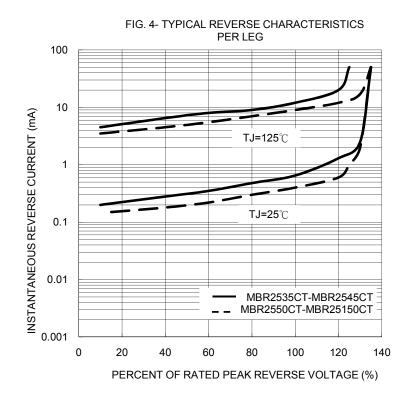
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)









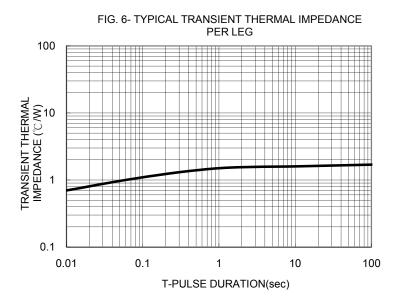
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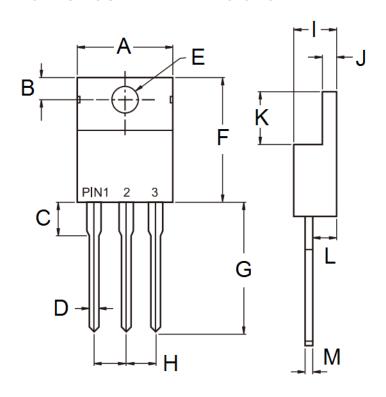


10000

(Jayout 1000)



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Min Max		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	
Η	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

= Factory Code

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MBR2535CT thru MBR25150CT





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