



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





TO-220AB

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 CHA	MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°ℂ unless otherwise noted)								
		MBR	MBR	MBR	MBR	MBR	MBR	MBR	
PARAMETER	SYMBOL	2535	2545	2550	2560	2590	25100	25150	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)}	25			Α				
Peak repetitive forward current (Rated VR, square wave, 20KHz)	I _{FRM}	25				А			
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200			А				
Peak repetitive reverse surge current (Note 1)	I _{RRM}		1			0.5			Α
Maximum instantaneous forward voltage (Note 2)									
I _F =12.5A, T _J =25℃			_	0.	75	0.	85	0.95	
I _F =12.5A, T _J =125℃	V_{F}		-	0.	65	0.	75	0.92	V
I _F =25A, T _J =25℃		0.	82		-	0.	92	1.02	
I _F =25A, T _J =125℃		0.	73		-	0.	88	0.98	
Maximum reverse current @ rated VR T_J =25 $^{\circ}\mathrm{C}$		0	.2	0	.2	0	.1	0.1	mΛ
T _J =125 ℃	I _R	1	5	1	0	7	.5	5	mA
Voltage rate of change (Rated V _R)	dV/dt	10000				V/µs			
Typical thermal resistance	$R_{ heta JC}$	1.0			°C/W				
Operating junction temperature range	T _J	- 55 to +150			οС				
Storage temperature range	T _{STG}	- 55 to +150					οС		

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

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



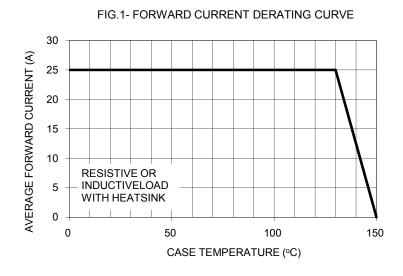
ORDERING INFORMATION						
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
MBR25xxCT (Note 1)	Prefix "H"	C0	Suffix "G"	TO-220AB	50 / Tube	

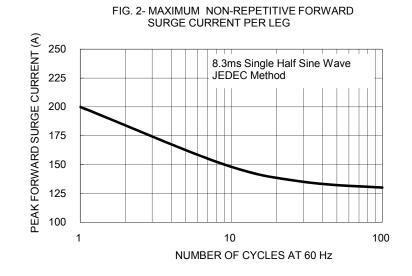
Note 1: "xx" defines voltage from 35V (MBR2535CT) to 150V (MBR25150CT)

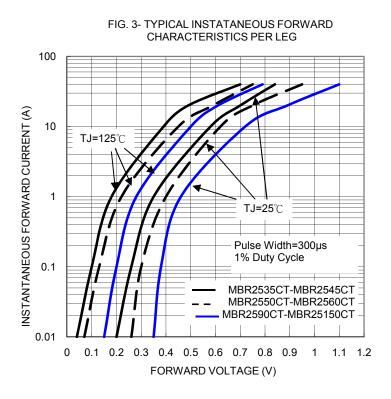
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
MBR2560CT C0	MBR2560CT		C0				
MBR2560CT C0G	MBR2560CT		C0	G	Green compound		
MBR2560CTHC0	MBR2560CT	Н	C0		AEC-Q101 qualified		

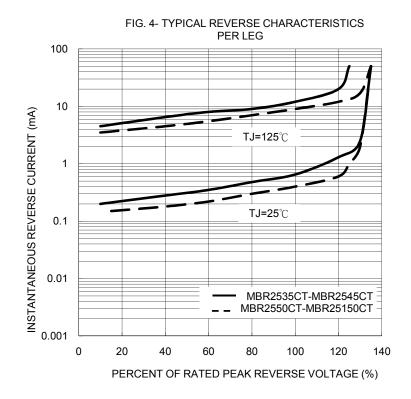
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)













10000

MBR2535CT-MBR2545CT

--- MBR2550CT-MBR25150CT

1000

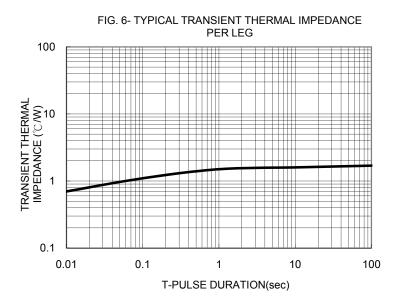
1000

0.1

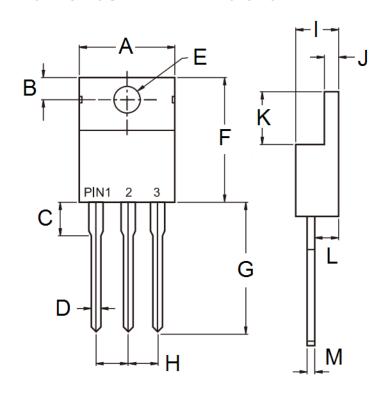
1

100

REVERSE VOLTAGE (V)



PACKAGE OUTLINE DIMENSIONS

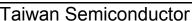


DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	-	10.50	-	0.413	
В	2.62	3.44	0.103	0.135	
С	2.80	4.20	0.110	0.165	
D	0.68	0.94	0.027	0.037	
Е	3.54	4.00	0.139	0.157	
F	14.60	16.00	0.575	0.630	
G	13.19	14.79	0.519	0.582	
Η	2.41	2.67	0.095	0.105	
-	4.42	4.76	0.174	0.187	
J	1.14	1.40	0.045	0.055	
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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