imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





25A, 35V - 150V Dual Common Cathode Schottky Rectifiers

FEATURES

- Low power loss, high efficiency
- Ideal for automated placement
- 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

MECHANICAL DATA

Case: TO-263AB (D²PAK)

Molding compound, UL flammability classification rating 94V-0 Moisture sensitivity level: level 1, per J-STD-020 Part no. with suffix "H" means AEC-Q101 qualified Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 2 whisker test **Polarity:** As marked **Weight:** 1.37 g (approximately)



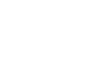
TO-263AB (D²PAK)

K

-O HEATSINK

PIN 10-

PIN 2 O







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)								
	MBRS	MBRS	MBRS	MBRS	MBRS	MBRS	MBRS	
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				А
I _{FRM}				25				A
I _{FSM}				200				А
I _{RRM}	1 0.5				А			
	0.	65	0.	75	0.	85	0.95	
V _F	0.55		0.	0.65 0		75	0.92	2 V
	0.	82	0.	90	0.	92	1.02	
	0.	73	0.	80	0.	88	0.98	
	0	.2	0	.2	0	.1	0.1	— mA
IR	1	5	1	0	7	.5	5	
dV/dt	10000		•	V/µs				
R _{θJC}	1.0			°C/W				
TJ				°C				
T _{STG}	- 55 to +150				°C			
	SYMBOL V_{RRM} V_{RMS} V_{C} $I_{F(AV)}$ I_{FRM} I_{FSM} V_F I_R dV/dt $R_{\theta,JC}$ T_J	$\begin{tabular}{ c c c c } & & & & & & & & & & & & & & & & & & &$	$\begin{tabular}{ c c c c } & MBRS & MBRS & 2535 & 2545 & CT & C$	$\begin{tabular}{ c c c c c } \hline $KYMBOL$ & $MBRS$ & $MBRS$ & $MBRS$ & $MBRS$ & 250 & 250 & CT & $CT$$	$\begin{tabular}{ c c c c c c } \hline $NBRS$ & $MBRS$ & $MBRS$ & $MBRS$ & $MBRS$ & $MBRS$ & $MBRS$ & 2560 & 2560 & 2560 & CT	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\left \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 } \hline \mbox{NBRS} & \mbox{MBRS} & MBRS$

Note 1: tp = 2.0 µs, 1.0KHz

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



MBRS2535CT - MBRS25150CT

Taiwan Semiconductor

ORDERING INFORMATION

PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING
MBRS25xxCT	Ц	RN	G	D ² PAK	800 / 13" Paper reel
(Note 1)	11	MN	9	D PAK	800 / 13" Plastic reel

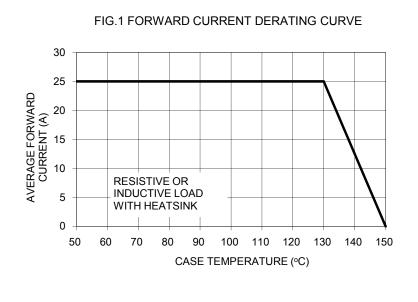
Note 1: "xx" defines voltage from 35V (MBRS2535CT) to 150V (MBRS25150CT)

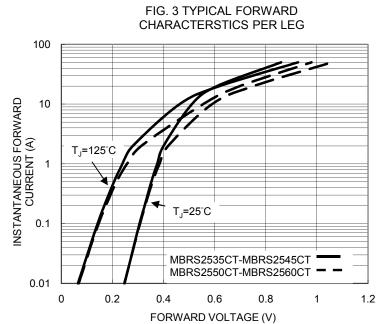
*: Optional available

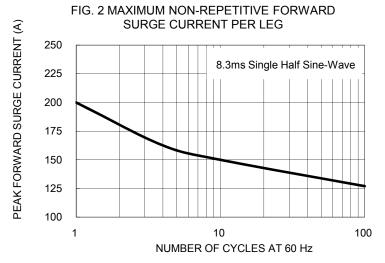
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
MBRS2560CTHRNG	MBRS2560CT	Н	RN	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

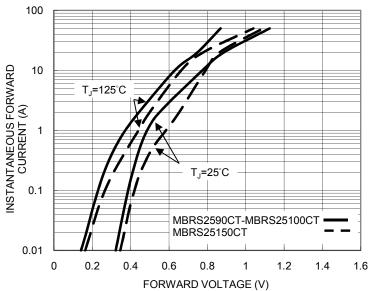
 $(T_A=25^{\circ}C \text{ unless otherwise noted})$













Taiwan Semiconductor



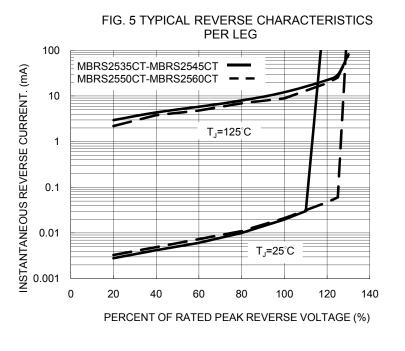
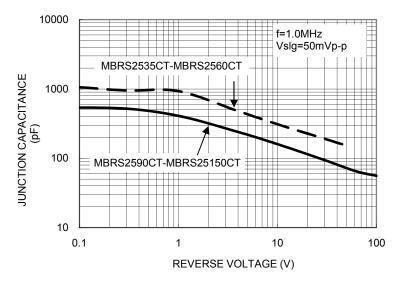
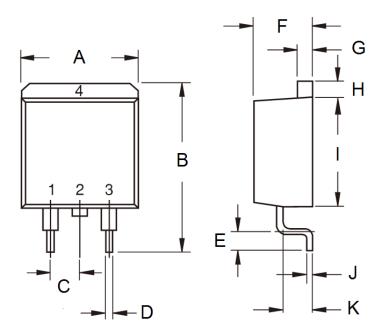


FIG. 7 TYPICAL JUNCTION CAPACITANCE PER LEG







Document Number: D1308001

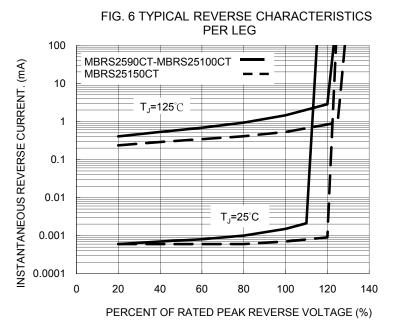
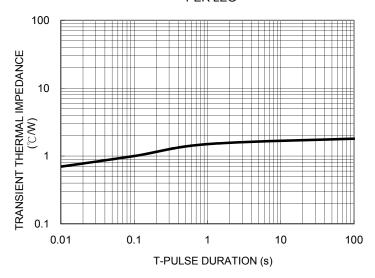


FIG. 8 TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG

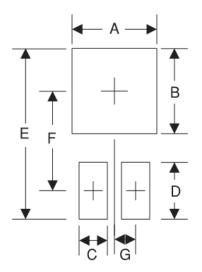


DIM.	Unit	(mm)	Unit (inch)		
	Min Max		Min	Max	
А	-	10.5	-	0.413	
В	14.60	15.88	0.575	0.625	
С	2.41	2.67	0.095	0.105	
D	0.68	0.94	0.027	0.037	
E	2.29	2.79	0.090	0.110	
F	4.44	4.70	0.175	0.185	
G	1.14	1.40	0.045	0.055	
Н	1.14	1.40	0.045	0.055	
I	8.25	9.25	0.325	0.364	
J	0.36	0.53	0.014	0.021	
К	2.03	2.79	0.080	0.110	



Taiwan Semiconductor

SUGGESTED PAD LAYOUT



P/N

G

F

Symbol	Unit (mm)	Unit (inch)
A	10.8	0.425
В	8.3	0.327
С	1.1	0.043
D	3.5	0.138
E	16.9	0.665
F	9.5	0.374
G	2.5	0.098

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound

YWW = Date Code

= Factory Code



Taiwan Semiconductor

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 or 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 selling 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.