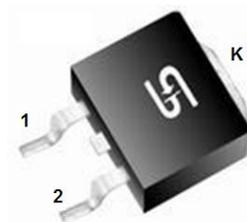
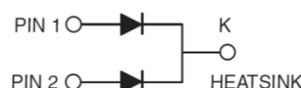


Dual Common Cathode Schottky Rectifier

FEATURES

- Low power loss, high efficiency
- Ideal for automated placement
- Guardring for overvoltage protection
- High surge current capability
- Moisture sensitivity level: level 1, per J-STD-020
- 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-263AB (D²PAK)


MECHANICAL DATA

Case: TO-263AB (D²PAK)

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Polarity: As marked

Weight: 1.37 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	MBRS 1045 CT-Y	MBRS 1060 CT-Y	MBRS 10100 CT-Y	MBRS 10150 CT-Y	Unit
Marking code		MBRS 1045CT	MBRS 1060CT	MBRS 10100CT	MBRS 10150CT	
Maximum repetitive peak reverse voltage	V _{RRM}	45	60	100	150	V
Maximum RMS voltage	V _{RMS}	31	42	70	105	V
Maximum DC blocking voltage	V _{DC}	45	60	100	150	V
Maximum average forward rectified current	I _{F(AV)}	10				A
Peak repetitive forward current (Rated V _R , Square wave, 20KHz)	I _{FRM}	10				A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120				A
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1				A
Maximum instantaneous forward voltage (Note 2) I _F = 5 A, T _J =25°C I _F = 5 A, T _J =125°C I _F = 10 A, T _J =25°C I _F = 10 A, T _J =125°C	V _F	0.70 0.57 0.80 0.67	0.80 0.65 0.90 0.75	0.85 0.75 0.95 0.85	0.88 0.78 0.98 0.88	V
Maximum reverse current @ rated V _R T _J =25°C T _J =100°C T _J =125°C	I _R	0.1 15 10 - - - 5				mA
Voltage rate of change (Rated V _R)	dV/dt	10000				V/μs
Typical thermal resistance	R _{θJC}	2				°C/W
Operating junction temperature range	T _J	- 55 to +150				°C
Storage temperature range	T _{STG}	- 55 to +150				°C

Note 1: tp = 2.0 μs, 1.0KHz

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

ORDERING INFORMATION				
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
MBRS10xxCT-Y (Note 1)	RN	G	D ² PAK	800 / 13" Paper reel
	C0		D ² PAK	50 / Tube

Note 1: "xx" defines voltage from 45V (MBRS1045CT-Y) to 150V (MBRS10150CT-Y)

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
MBRS1060CT-Y RN	MBRS1060CT-Y	RN		
MBRS1060CT-Y RNG	MBRS1060CT-Y	RN	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE

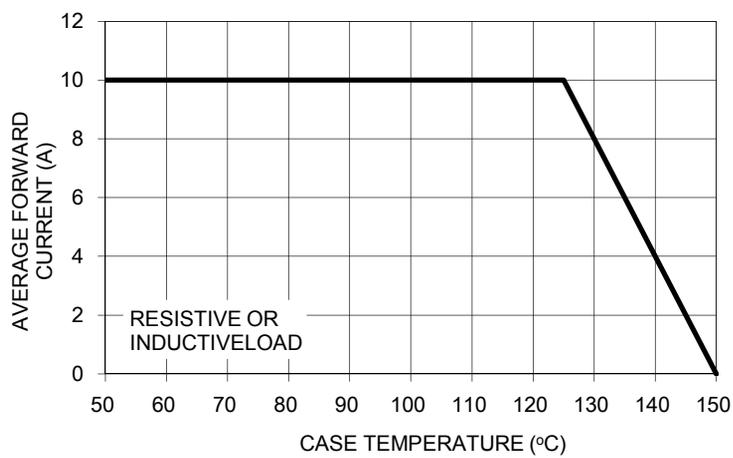


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

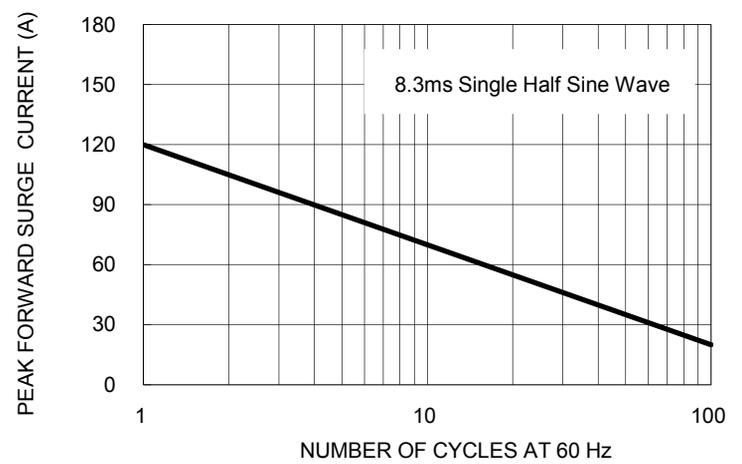


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

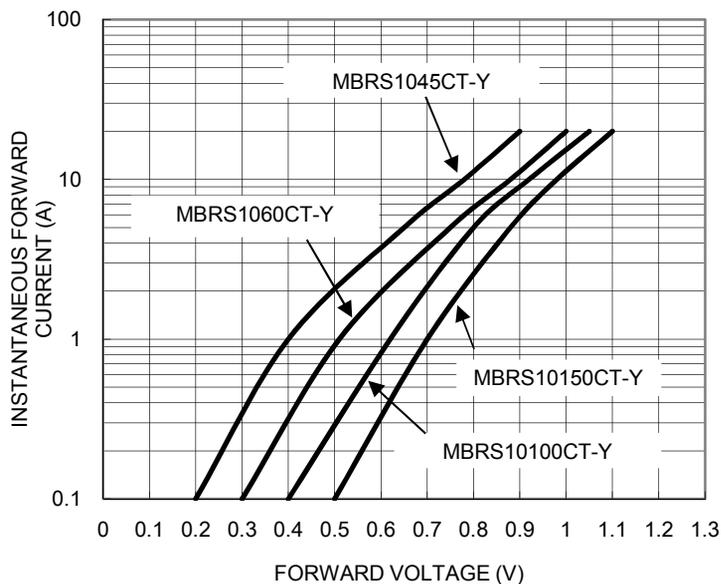


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

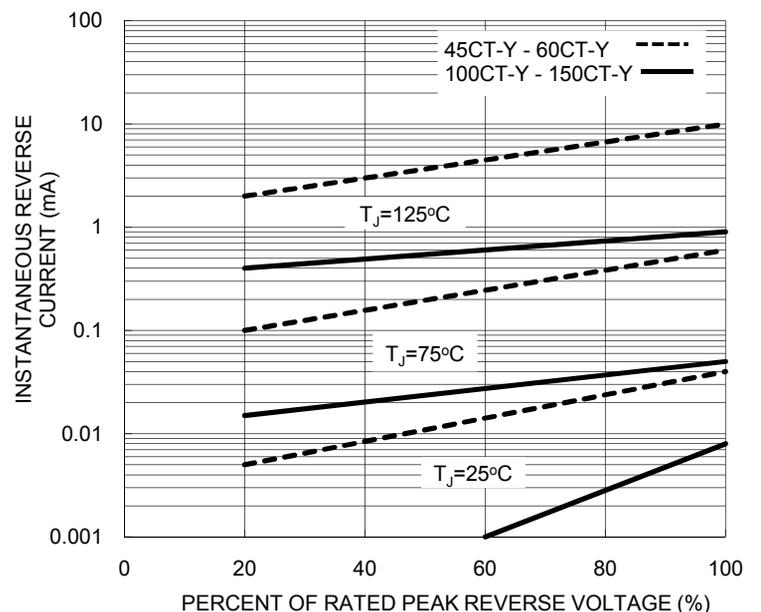


FIG. 5 TYPICAL JUNCTION CAPACITANCE

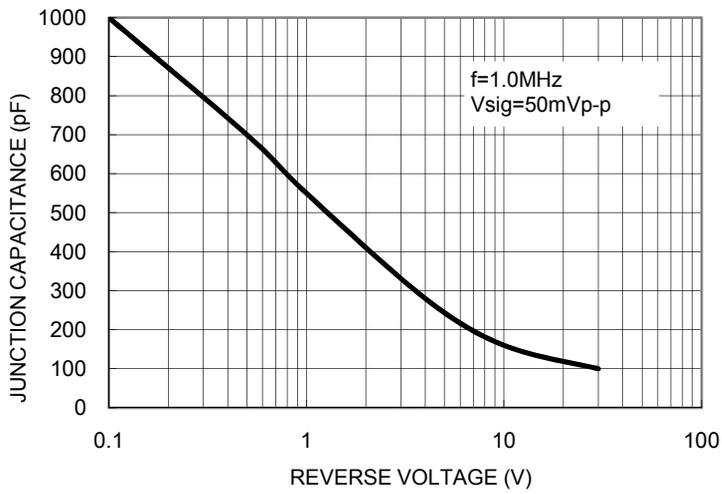
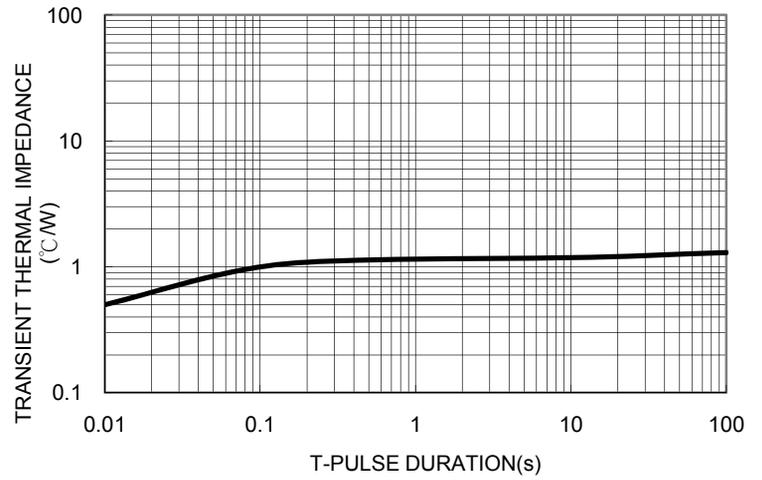
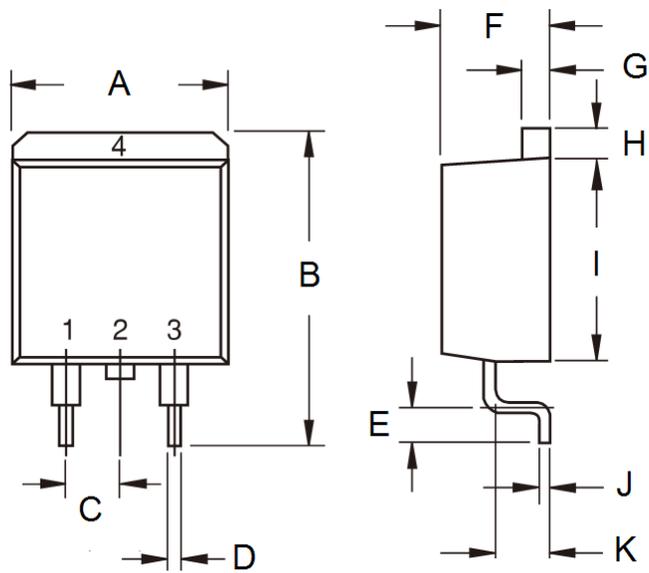


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG

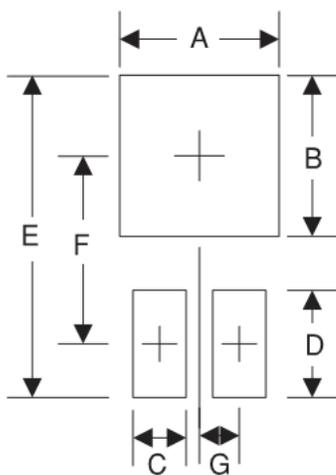


PACKAGE OUTLINE DIMENSIONS
TO-263AB (D²PAK)



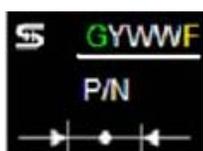
DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	-	10.5	-	0.413
B	14.60	15.88	0.575	0.625
C	2.41	2.67	0.095	0.105
D	0.68	0.94	0.027	0.037
E	2.29	2.79	0.090	0.110
F	4.44	4.70	0.175	0.185
G	1.14	1.40	0.045	0.055
H	1.14	1.40	0.045	0.055
I	8.25	9.25	0.325	0.364
J	0.36	0.53	0.014	0.021
K	2.03	2.79	0.080	0.110

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
A	10.8	0.425
B	8.3	0.327
C	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



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

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru