

TMBR30150CT

Dual Common-Cathode Ultra Low VF Schottky Rectifier

General description

Product profile

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Rectifiers 30 Amp 150V

Features

- Guard ring for overvoltage protection
- Lower power losses, high efficiency
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High frequency operation
- Solder Dip 260 °C, 40 s
- RoHS compliant package

Typical applications

For use in high frequency rectifier of switching mode power supplies, freewheeling diodes, dc-to-dc converters or polarity protection application.

Mechanical data

Case: TO-220AB

Molding compound meets UL 94 V-0 flammability rating

Terminals: Matte tin plated leads, solderable per meets JESD 201

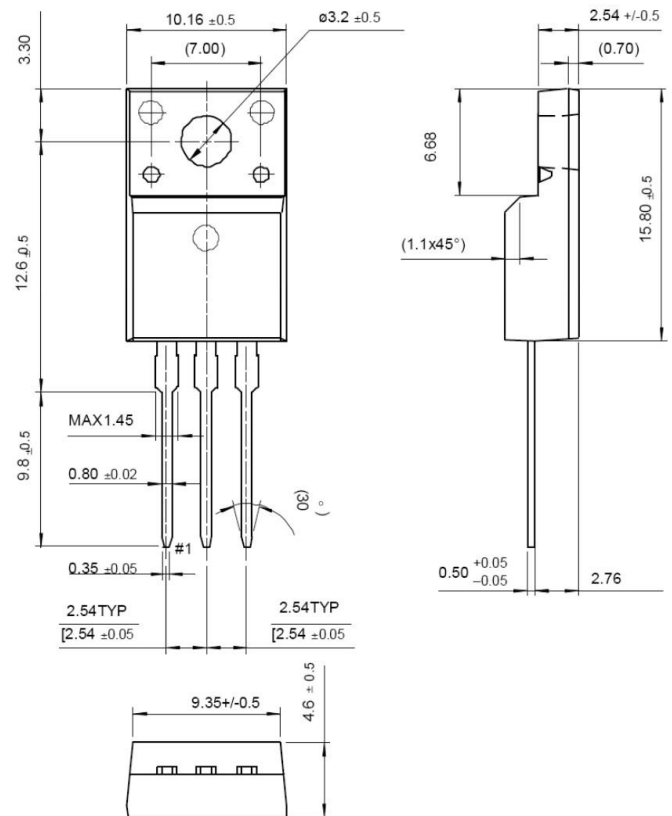
Polarity: As marked

Weight: 2.35 grams

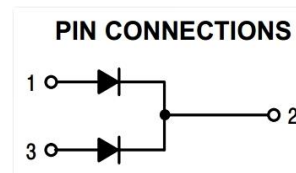
Mounting Torque: 10 in-lbs maximum

Packing & Order Information

50/Tube ; 1,000/Box



Graphic symbol



RoHS
COMPLIANT

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Maximum Ratings (Tc=25°C unless otherwise noted)			
Parameter	Symbol	TMBR30150CT	Unit
Maximum repetitive peak reverse voltage	VRRM	150	V
RMS Voltage (Max.)	VRMS	105	V
Working peak reverse voltage	VRWM	150	V
Maximum average forward rectified current Total Device	IF(AV)	30	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250	A
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	TSTG	-55 to +150	°C

THERMAL CHARACTERISTICS			
Parameter	Symbol	Value	Unit
Typical thermal resistance	RθJC	4	°C/W

Notes: (1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

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Electrical characteristics (Tc=25°C unless otherwise noted)

OFF CHARACTERISTICS

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage at IF=3A, Tj=25°C at IF=15A, Tj=25°C at IF=3A, Tj=125°C at IF=15A, Tj=125°C	VF	0.64 0.82 0.52 0.68	0.92 0.74	V
Maximum reverse current Tj=25°C		100		
at working peak reverse voltage Tj=125°C		10		
Junction Capacitance @ DC 4V	CJ	250		pF

DEVICE MARK

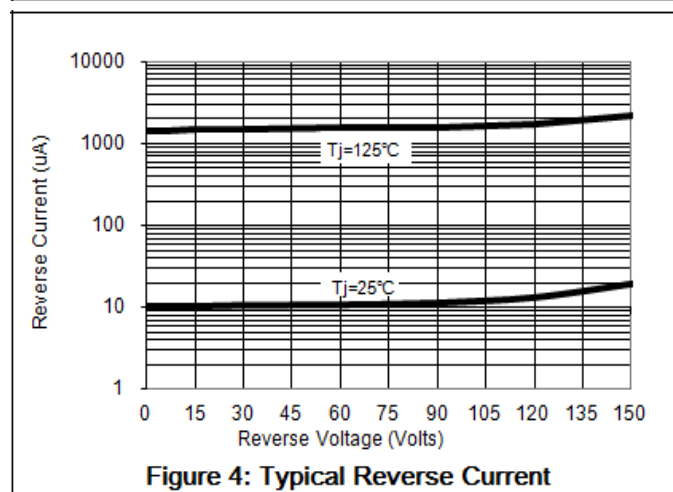
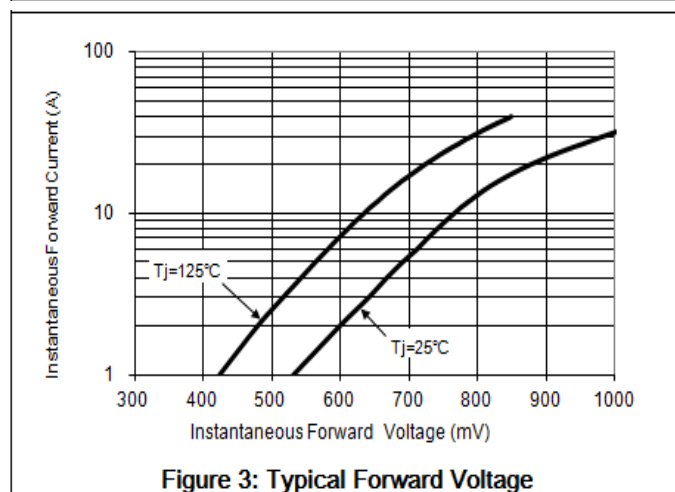
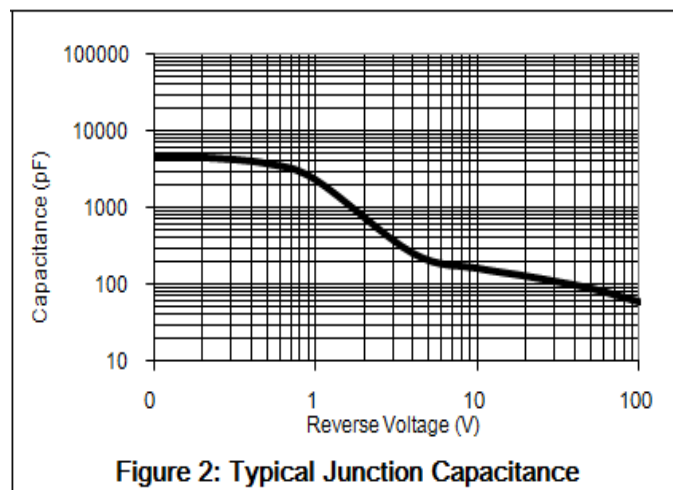
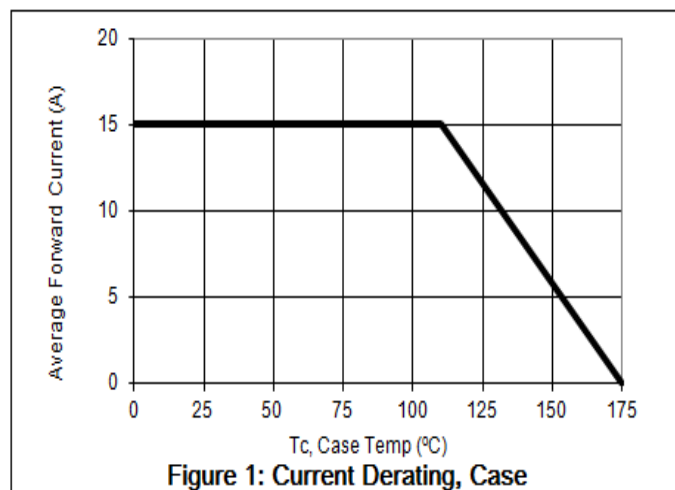
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■ Characteristic Curves



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