

Dual Common-Cathode Ultra Low VF Schottky Rectifier

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

Applications

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

Mechanical Data

• Case: TO-220AB

• Molding compound meets UL 94 V-0 flammability

• RoHS compliant, and commercial grade

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

• Polarity: As marked

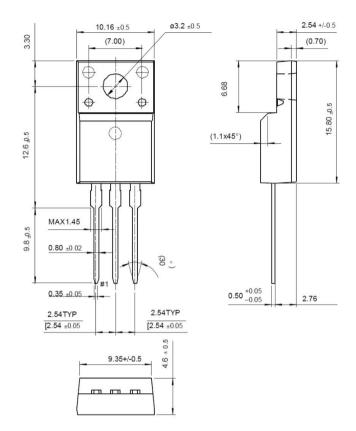
• Weight: 2.35grams

Mounting Torque: 10 in-lbs maximum

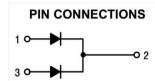
Packing & Order Information

50/Tube; 1,000/Box





Graphic symbol





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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

M : P : (F 250C 1 1 1 : 1)			
Maximum Ratings (Tc=25°C unless otherwise noted) Parameter	Symbol	TMBR2080CT	Unit
Maximum repetitive peak reverse voltage	VRRM	80	V
Working peak reverse voltage	VRWM	80	V
Maximum DC blocking voltage	VDC	80	V
Maximum average forward rectified current	IF(AV)	10	A
Peak forward surge current			
8.3ms single half sine-wave superimposed	IFSM	120	A
on rated load (JEDEC Method)			
Average Rectified Forward Current	Io(AV)	20	A
Operating junction temperature range	TJ	-55 to +175	°C
Storage temperature range	TSTG	-55 to +175	°C

Electrical characteristics (Tc=25°C unless otherwise noted)						
Parameter	Symbol	Value		T I :4		
		Typical	Max	Unit		
Maximun instantaneous at IF=10A, Tj=25°C	VF	0.61	0.65	V		
forward voltage per leg at IF=10A, Tj=125°C		0.58	0.62			
Maximum reverse current per leg Tj=25°C	ID	200		u'A		
at working peak reverse voltage Tj=125°C	- IR	1		m'A		

Notes:

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

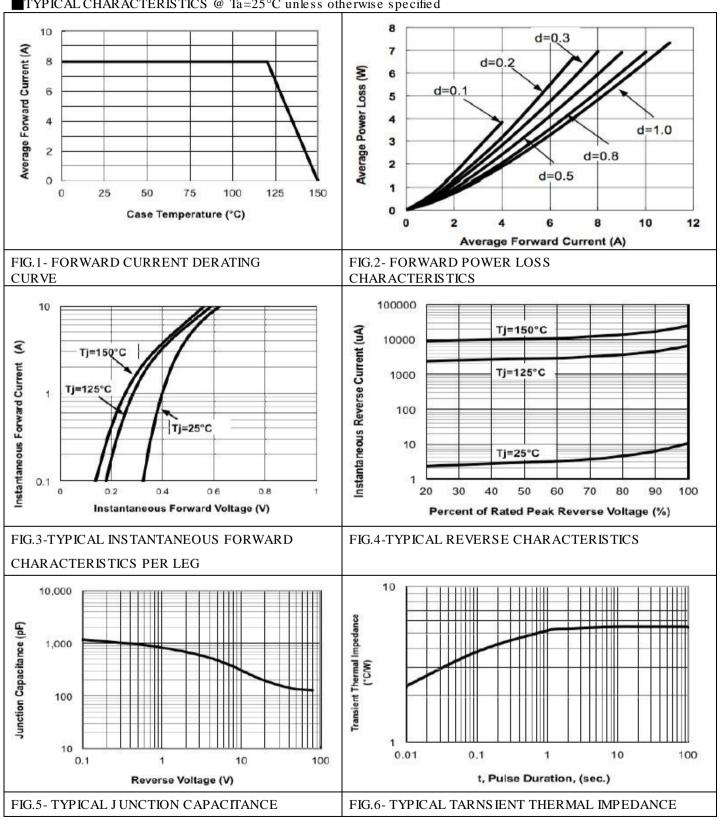
(2) Pulse test: Pulse width ≤ 40 ms

Thermal characteristics (Tc=25°C unless otherwise noted)					
Parameter		Value	Unit		
Typical thermal resistance	Symbol	TMBR2080CT			
	Rthja	60	°C/W		
	RθJA	4			



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■TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





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