

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, freewheeling diodes, dc-to-dc converters or polarity protection application.

Mechanical Data

· Case: TO-220AB

• Molding compound meets UL 94 V-0 flammability

· Terminals: Matte tin plated leads

Polarity: As markedWeight: 2.24 grams

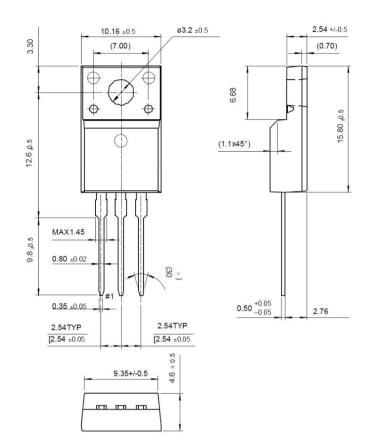
• Mounting Torque: 10 in-lbs maximum

Packing & Order Information

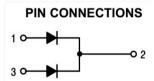
50/Tube ; 1,000/Box







Graphic symbol





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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)			
Parameter	Symbol	TMBR30120CT	Unit
Maximum repetitive peak reverse voltage	VRRM	120	V
Working peak reverse voltage	VRWM	120	V
Maximum DC blocking voltage	VDC	120	V
Maximum average forward rectified current Total device	IF(AV)	30	A
Average Rectified Forward Current	Io(AV)	15	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200	A
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	TSTG	-55 to +175	°C

Electrical characteristics (Tc=25°C unless otherwise noted)						
Daramatar	Symbol	Value		Unit		
Parameter		Typical	Max	Unit		
Instantaneous forward voltage at IF=15A, Tj=25°C	VF	0.79	0.76	V		
at IF=15A, Tj=125°C		0.66	0.68			
Maximum reverse current per leg Tj=25°C	TD.	200		u'A		
at working peak reverse voltage Tj=125°C	- IR	30		m'A		

Notes:

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

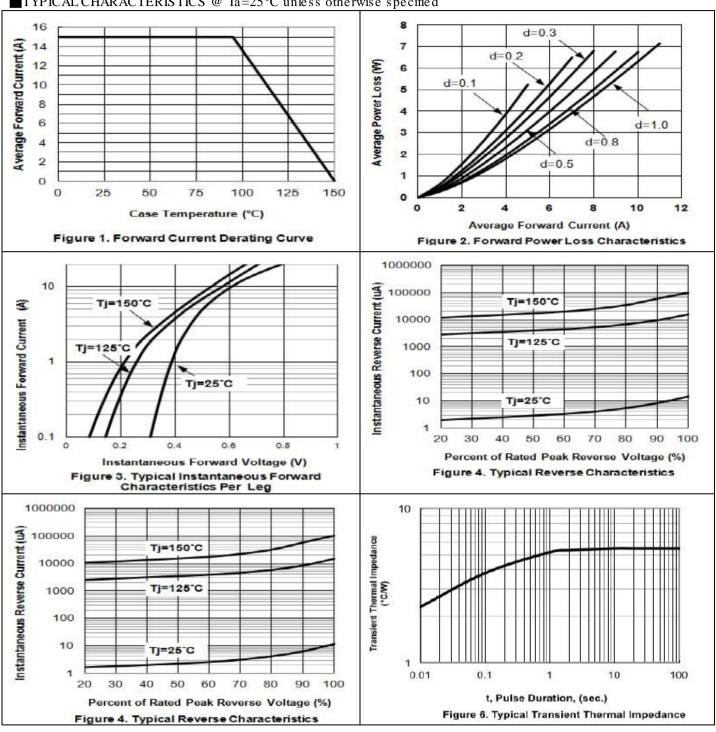
(2) Pulse test: Pulse width ≤ 40 ms

Thermal characteristics (Tc=25°C unless otherwise noted)					
Parameter	Symbol	Value	Unit		
Typical thermal resistance	Rthjc	4	000		
	RθJA	60	°C/W		



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





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