

Schottky Dual Diode

MBR1535CT

35V / 15A

DATASHEET

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OEM – General Semiconductor

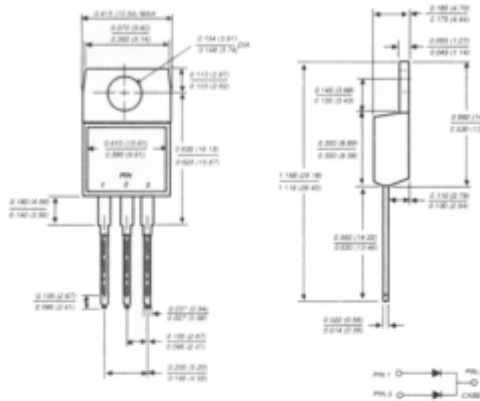
Source: General Semiconductor Databook 1998

MBR1535CT THRU MBR1560CT

SCHOTTKY RECTIFIER

Reverse Voltage - 35 to 60 Volts Forward Current - 15.0 Amperes

TO-220AB



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- Dual rectifier construction, positive center tap
- Guardring for transient protection
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25" (6.35mm) from case



MECHANICAL DATA

Case: JEDEC TO-220AB molded plastic body
Terminals: Leads solderable per MIL-STD-750, Method 2026
Polarity: As marked
Mounting Position: Any
Mounting Torque: 5 in. - lbs. max.
Weight: 0.08 ounces, 2.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	MBR1535CT	MBR1545CT	MBR1550CT	MBR1560CT	UNITS
Maximum repetitive peak reverse voltage	VRRM	35	45	50	60	Volts
Maximum working peak reverse voltage	VRWM	35	45	50	60	Volts
Maximum DC blocking voltage	VDC	35	45	50	60	Volts
Maximum average forward rectified current at TC=105°C	IAV	15.0				Amps
Peak repetitive forward current at TC=105°C per leg (rated VR, 20KHz sq.wave)	IFRM	15.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per leg (JEDEC method)	IFSM	150.0				Amps
Peak repetitive reverse surge current per leg (NOTE 1)	IRRM	1.0		0.5		Amps
Maximum instantaneous forward voltage per leg at (NOTE 2)	VF	IF=7.5A, TC=25°C IF=7.5A, TC=125°C IF=15A, TC=25°C IF=15A, TC=125°C		0.75 0.65 -		Volts
Maximum instantaneous reverse current at rated DC blocking voltage per leg (NOTE 2) TC=125°C	IR	0.1 15.0		1.0 50.0		mA
Voltage rate of change, (rated VR)	dv/dt	10,000				V/μs
Maximum thermal resistance per leg (NOTE 3)	REJA REJC	60.0 3.0				°C/W
Operating junction temperature range	TJ	-65 to +150				°C
Storage temperature range	TSTG	-65 to +175				°C

NOTES:

- (1) 2.0μs pulse width, f=1.0 KHz
- (2) 300μs, pulse width, 1% duty cycle
- (3) Thermal resistance from junction to case and thermal resistance from junction to ambient

RATINGS AND CHARACTERISTIC CURVES MBR1535CT THRU MBR1560CT

