MOTOR@k645WT/D供应商 SEMICONDUCTOR TECHNICAL DATA

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by MBR6045WT/D

Advance Information **SWITCHMODE™** Power Rectifier

The SWITCHMODE power rectifier employs the use of the Schottky Barrier principle with a Platinum barrier metal. This state-of-the-art device has the following features:

- Dual Diode Construction Terminals 1 and 3 May Be • Connected for Parallel Operation at Full Rating
- 45 Volt Blocking Voltage
- Low Forward Voltage Drop
- Guardring for Stress Protection and High dv/dt Capability • (> 10 V/ns)
- Guaranteed Reverse Avalanche
- 150°C Operating Junction Temperature

Mechanical Characteristics

- · Case: Epoxy, Molded
- Weight: 4.3 grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds WWW.DZSC.COM
- Shipped 30 Units Per Plastic Tube •
- Marking: B6045

MAXIMUM RATINGS

Rating	Symbol	Max	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	45 2 5 45	Volt
Average Rectified Forward Current — Per Diode (Rated $V_R)$ @ $T_C = 125^{\circ}C$ — Per Device	IF(AV)	30 60	Amp
Peak Repetitive Forward Current, Per Diode (Rated V _R , Square Wave, 20 kHz) @ T _C = 90°C	IFRM	60	Amp
Non Repetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 Hz)	IFSM	500	Amp
Peak Repetitive Reverse Current (2.0 μs, 1.0 kHz)	I _{RRM}	2.0	Amp
Operating Junction Temperature	Тј	-65 to +150	°C
Storage Temperature	T _{stg}	-65 to +175	°C
Peak Surge Junction Temperature (Forward Current Applied)	T _{J(pk)}	175	°C
Voltage Rate of Change	dv/dt	10,000	V/µs
THERMAL CHARACTERISTICS	•		
Thermal Resistance — Junction to Case	R _{θJC}	1.0	°C/W

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SCHOTTKY BARRIER

RECTIFIER

60 AMPERES

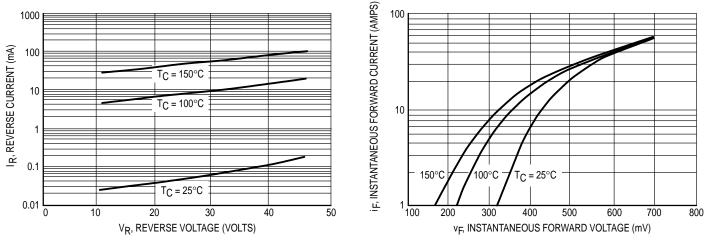


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ELECTRICAL CHARACTERISTICS

Rating	Symbol	Мах	Unit
Instantaneous Forward Voltage (1) @ I _F = 30 Amps, T _C = 25°C @ I _F = 30 Amps, T _C = 125°C @ I _F = 60 Amps, T _C = 25°C	VF	0.62 0.55 0.75	Volts
Instantaneous Reverse Current (1) @ Rated DC Voltage, T _C = 25°C @ Rated DC Voltage, T _C = 100°C	IR	1.0 50	mA

(1) Pulse Test: Pulse Width = 300 μ s, Duty Cycle < 2.0%



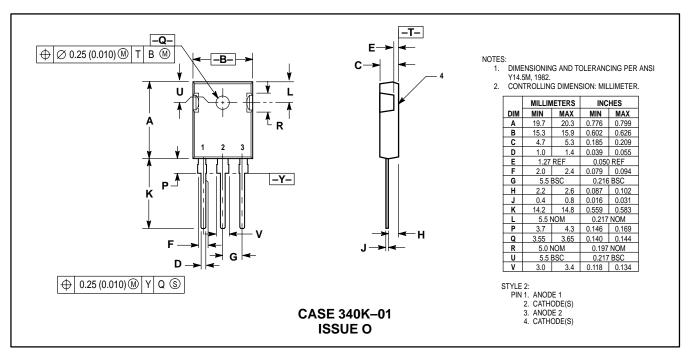
TYPICAL ELECTRICAL CHARACTERISTICS

Figure 1. Typical Reverse Current

Figure 2. Typical Forward Voltage

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PACKAGE DIMENSIONS



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