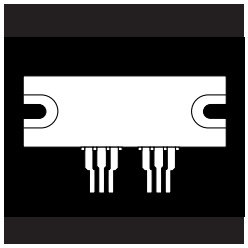
DUAL SCHOTTKY CENTER-TAP RECTIFIERS IN LOW PROFILE PLASTIC POWER PACKAGE



25 Amp, Dual Center-Tap,
45 Volts Schottky Rectifier

FEATURES

- Very Low Forward Voltage
- Fast Switching Speed
- Small Low Profile Package
- Low Thermal Resistance
- Dual Center-Tap Configuration
- Isolated Low Profile Package

DESCRIPTION

This product is specifically designed for use at power switching frequencies in excess of 100 kHz. This product features four Schottky-barrier diodes in a dual center-tap configuration in a single package, simplifying installation, reducing heat sink hardware, and the need to obtain matched components. The device is ideally suited for industrial applications where small size and high performance is required. Common anode configuration also available.

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage Per Schottky Rectifier	45 V
Maximum Average DC Output Current Per Center-Tap @ T_C = 100° C	25 A
Peak Surge Current (Non-Repetitive, 8.3 mS)	100 A
Peak Reverse Transient Current	2 A
Storage Temperature Range	- 55° C to + 125° C
Junction Operating Temperature Range	- 55° C to + 125° C
Package Thermal Resistance, Junction-to-Case	1.7° C/W

ELECTRICAL CHARACTERISTICS (Per Leg)

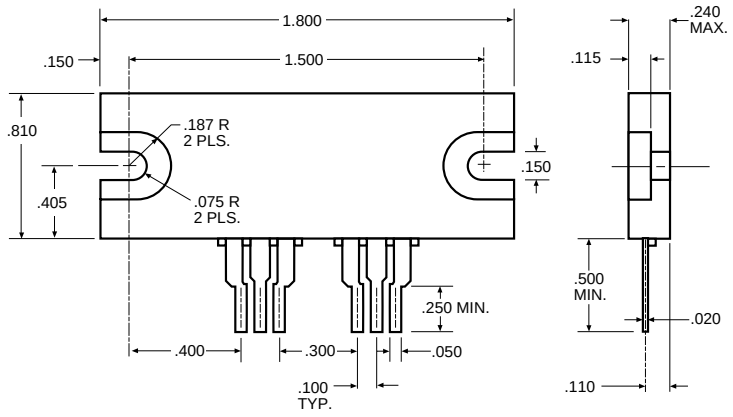
Symbol	Characteristic	Conditions	Limit	Units
I_R	Maximum Instantaneous[1] Reverse Current	T_C = 25°C, V_R = 35V	.50	mA
		T_C = 125°C	100	mA
V_F	Maximum Instantaneous[1] Forward Voltage	T_C = 25°C, I_F = 12A	.72	V
		T_C = 100°C, I_F = 12A	.62	V

(1) Pulse Test: Pulse width = 300µsec, Duty cycle 2%.

THERMAL RESISTANCE

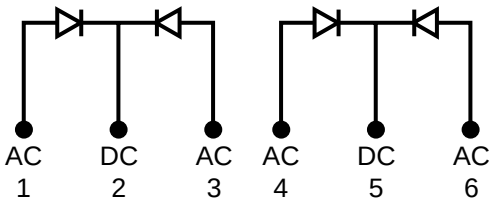
R_{thJC}	Thermal Resistance, Junction to Case	1.7	°C/W	
R_{thJA}	Thermal Resistance, Junction to Ambient	50	°C/W	Free Air Operation

MECHANICAL OUTLINE



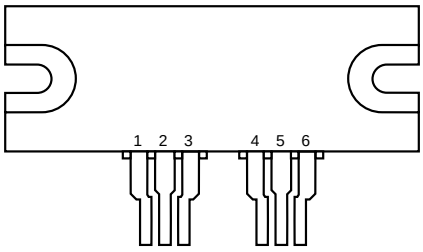
3.2

SCHEMATIC



Contact factory for common anode, common cathode is standard.

CONNECTION DIAGRAM



Pin 1: AC
Pin 2: DC
Pin 3: AC
Pin 4: AC
Pin 5: DC
Pin 6: AC