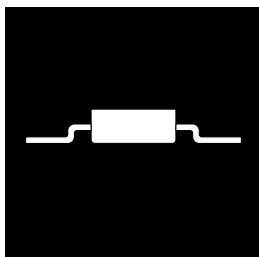


# ISOLATED SURFACE MOUNT POWER SCHOTTKY CENTER-TAP RECTIFIER



## Hermetic Surface Mount Package 10 Amp, 45 Volt Schottky Center-Tap

### FEATURES

- Hermetic Surface Mount Package
- Very Low Forward Voltage
- Low Recovery Charge
- High Efficiency For Low Voltage Supplies
- 45V Blocking @ Rated  $T_{jmax}$
- 50V Repetitive Surge Voltage
- Center-Tap Configuration
- Available Hi-Rel Screened

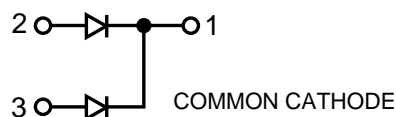
### DESCRIPTION

This series of surface mount devices offer two Schottky barriers arranged in a common cathode configuration and is ideally suited for a full wave output rectifier in low voltage switching power supplies where small size and high reliability are required. Common anode configuration also available.

### ABSOLUTE MAXIMUM RATINGS ( $T_c=25^\circ\text{C}$ ) Per Diode

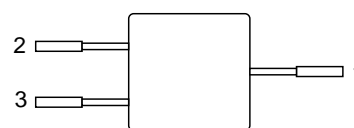
Peak Inverse Voltage.....	45 V
Maximum Average D.C. Output Current.....	5 A
Peak Surge Current (Non-Repetitive, 8.3mS) .....	60 A
Peak Reverse Transient Current .....	1.0 A
Storage Temperature Range .....	- 55° C to + 175° C
Junction Operating Temperature Range .....	- 55° C to + 150° C
Package Thermal Resistance, Junction-to-Case .....	2.5° C/W

### SCHEMATIC



Contact factory for common anode,  
common cathode is standard.

### PIN CONNECTION



Pin 1: DC  
Pin 2: AC  
Pin 3: AC  
Case: Isolated

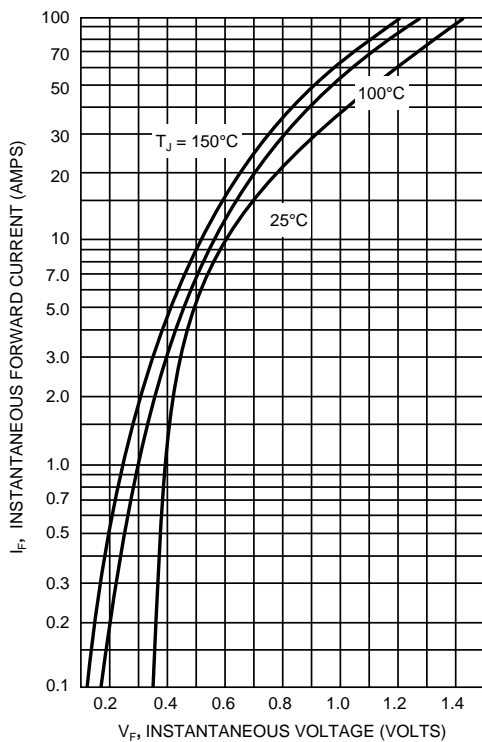
3.5

### ELECTRICAL CHARACTERISTICS (Per Diode)

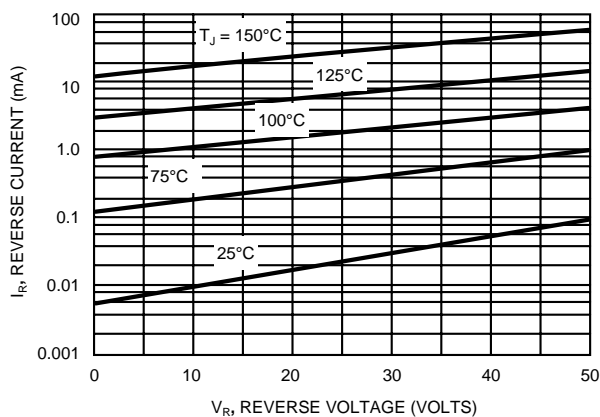
Symbol	Characteristic	Conditions	Max.	Units
$V_F$	Maximum Instantaneous Forward Voltage <sup>1</sup>	$I_F = 5A, T_C = 125^\circ C$	.600	V
		$I_F = 5A, T_C = 25^\circ C$	.750	V
$i_R$	Maximum Instantaneous Reverse Current <sup>1</sup>	Rated dc Voltage, $T_C = 125^\circ C$	18	mA
		Rated dc Voltage, $T_C = 25^\circ C$	1.0	mA

(1) Pulse Test: Pulse width = 300μs, Duty Cycle 2.0%.

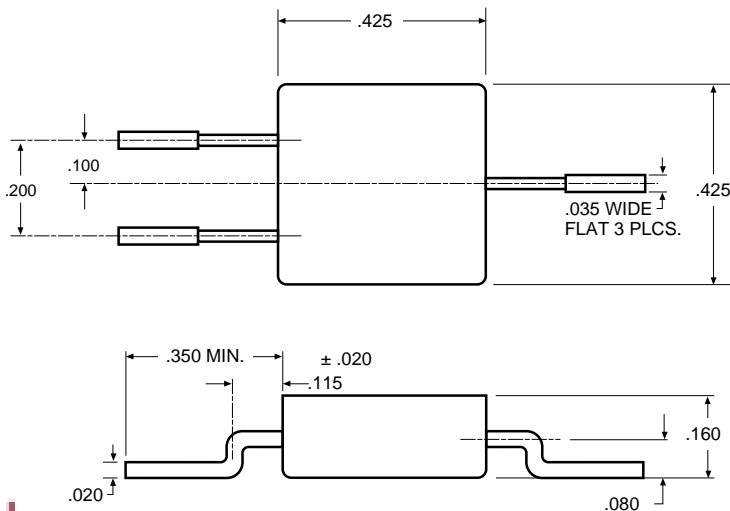
**TYPICAL FORWARD VOLTAGE**



**MAXIMUM REVERSE CURRENT**



**MECHANICAL OUTLINE**



3.5

