

TECHNICAL DATA  
DATA SHEET 680, REV. B

## HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

**DESCRIPTION:** A 45 VOLT, 15 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC LCC-5 PACKAGE.

### MAXIMUM RATINGS

ALL RATINGS ARE @  $T_C = 25^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (@ $T_C=100^\circ\text{C}$ )	$I_o$	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $t = 8.3\text{ms}$ , Sine)	$I_{FSM}$	150	Amps
MAXIMUM JUNCTION CAPACITANCE ( $V_r = 5\text{V}$ , $T_J = 25^\circ\text{C}$ , $f_{SIG} = 1\text{MHz}$ , $V_{SIG} = 50\text{mV P-P}$ )	$C_T$	800	pF
MAXIMUM THERMAL RESISTANCE (Junction to Case)	$R_{\theta JC}$	2.65	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 15\text{ Amps}$ ) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$V_f$	0.65 0.60	Volts
MAXIMUM REVERSE CURRENT ( $I_r @ 45\text{ V PIV}$ ) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$I_r$	1.5 70	mA

**Note:**  $V_f$  Curves are shown for die only.



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