

**SENSITRON**  
**SEMICONDUCTOR**

TECHNICAL DATA  
DATA SHEET 174, REV. -

**HERMETIC SURFACE MOUNT  
ULTRAFAST RECTIFIER  
(MELF)**

**DESCRIPTION:** 200 VOLT, 2 AMP, 30 NANOSECOND HERMETIC SURFACE MOUNT RECTIFIER

**MAX RATINGS**

ALL RATINGS ARE AT  $T_A = 25^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED

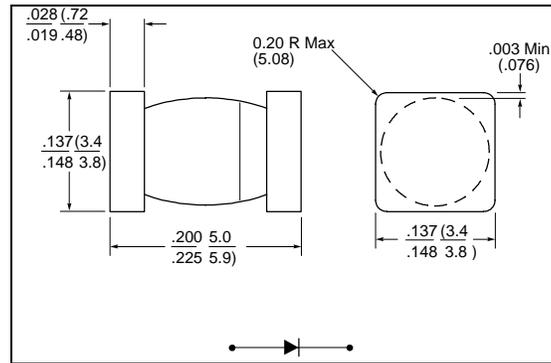
RATING		SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE		PIV	200	Volts
MAXIMUM AVERAGE DC OUTPUT CURRENT	$(T_A = 55^\circ\text{C})$	$I_o$	2.0	Amps
	$(T_A = 100^\circ\text{C})$		6.0	
PEAK SINGLE CYCLE SURGE CURRENT	$(t_p = 8.3 \text{ ms})$	$I_{FSM}$	75	Amps
MAXIMUM THERMAL RESISTANCE, JUNCTION TO END CAP		$R\theta_{JEC}$	8.0	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE		-	-65 to +175	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP	$(I_f = 2.0 \text{ A})$	$V_f$	1.35	Volts
MAXIMUM REVERSE CURRENT AT PIV	$(T_A = 25^\circ\text{C})$	$I_r$	2.0	$\mu\text{A}$
	$(T_A = 150^\circ\text{C})$		500	
MAXIMUM REVERSE RECOVERY TIME	$(I_f = 0.5\text{A}, I_r = 1.0 \text{ A}, I_{rr} = 0.25\text{A})$	$t_o$	30	nsec



**MECHANICAL DIMENSIONS - In inches and mm**



**MELF-B**

**Note:** The cathode side is marked on body with a dark band.

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