

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

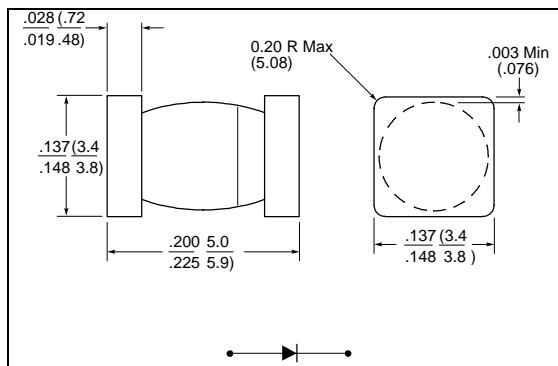
ALL RATINGS ARE AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED

RATING		SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE		PIV	200	Volts
MAXIMUM AVERAGE DC OUTPUT CURRENT	$(T_A = 55^\circ\text{C})$ $(T_A = 100^\circ\text{C})$	I_o	2.0 6.0	Amps
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	$^\circ\text{C}/\text{W}$
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	$(T_A = 25^\circ\text{C})$ $(T_A = 150^\circ\text{C})$	I_r	2.0 500	μA
MAXIMUM REVERSE RECOVERY TIME	$(I_f = 0.5\text{A}, I_r = 1.0 \text{ A}, I_{rr} = 0.25\text{A})$	I_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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