

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

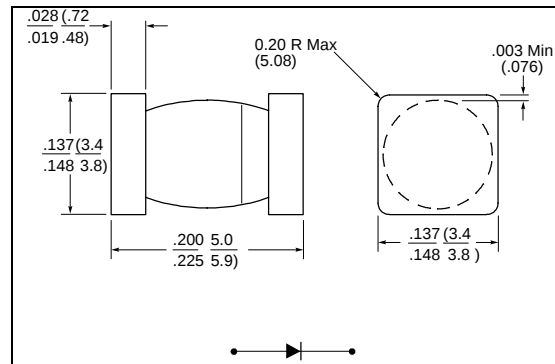
ALL RATINGS ARE AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED

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	$^\circ\text{C/W}$
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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