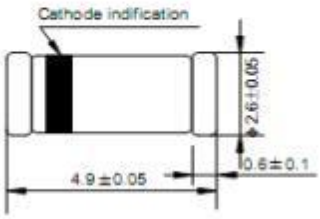
Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering：
  250℃/10 seconds at terminals

MELF



Maximum Ratings & Thermal Characteristics

(T_A = 25 °C unless otherwise noted)

(Single phase half-wave 60HZ,resistive or induction load,for capacitive load current derate by 20%.)

Items	Symbol	LL4007	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1000	V
Maximum average forward rectified current at T_L=110℃	$I_{F(AV)}$	1.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	20	A
Typical thermal resistance (1)	$R_{\theta JA}$	75	℃/ W
Operating junction and storage temperature range	T_J, T_{STG}	–55 to +125	℃

Note 1: P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

Items	Test conditions		Symbol	Min	Type	Max	UNIT
Instantaneous forward voltage	I_F=1A(2)		V_F	-	-	1.10	V
Reverse current	V_R=V_{DC}	T_j =25℃ T_j =100℃	I_R	-	-	5 50	hA
Typical junction capacitance	4.0 V ,1MHz		C_J	-	15.0	-	p F

Note 2: Pulse test:300hs pulse width,1% duty cycle.