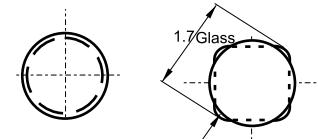
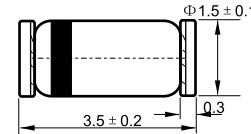




Reverse Voltage: 30Volts
Forward Current:0.2Amps

MINI MELF



Dimension in millimeters

Features

- ◊ For general applications
- ◊ Low turn-on voltage
- ◊ PN junction guard ring

Mechanical Data

- ◊ Glass case
- ◊ Weight: 0.05g (approx)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Characteristic	Symbol	Value	Unit
Continuous reverse voltage	V_R	30	V
Forward continuous current*	I_F	200	mA
Peak forward current*	I_{FM}	300	mA
Surge forward current* @ $t_p = 1s$	I_{FSM}	5.0	A
Power dissipation* @ $T_A = 65^\circ C$	P_{tot}	200	mW
Junction temperature	T_j	125	°C
Operating temperature range	T_A	-65 to +125	°C
Storage temperature range	T_{STG}	-65 to +150	°C

Electrical Characteristics @ $T_j = 25^\circ C$ unless otherwise specified

	Symbols	Min.	Typ.	Max.	UNITS
Reverse breakdown voltage	V_R	30.0			V
Forward voltage Pulse test $t_p < 300 \mu s$, $\delta < 2\%$	V_F			0.24 0.32 0.4 0.5 0.8	V
@ $I_F=0.1mA$ @ $I_F=1mA$ @ $I_F=10mA$ @ $I_F=30mA$ @ $I_F=100mA$					
Leakage current $V_R=25V$	I_R			2.0	μA
Junction capacitance at $V_R=1V$, $f=1MHz$	C_J			10	pF
Reverse recovery time @ $I_F=10mA$, $I_R=10mA$, $I_R=1mA$	t_{rr}			5	ns
Thermal resistance junction to ambient	$R_{\theta JA}$			430 ¹⁾	°C/W

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature



Characteristics ($T_j = 25^\circ\text{C}$ unless otherwise specified)

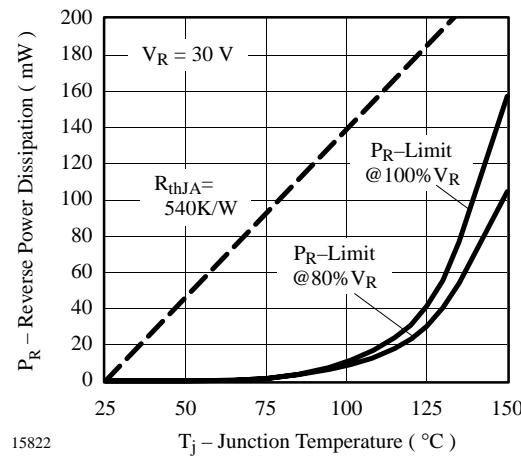


Figure 1. Max. Reverse Power Dissipation vs.
Junction Temperature

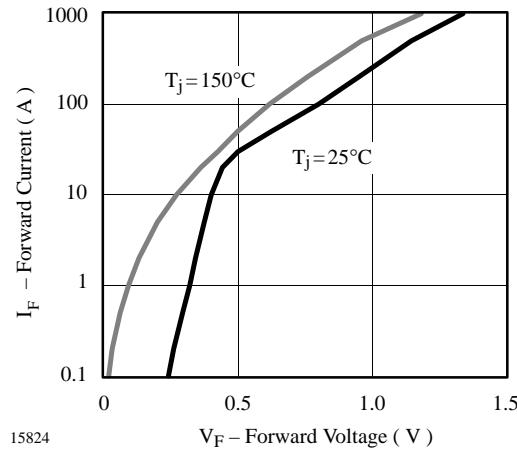


Figure 3. Forward Current vs. Forward Voltage

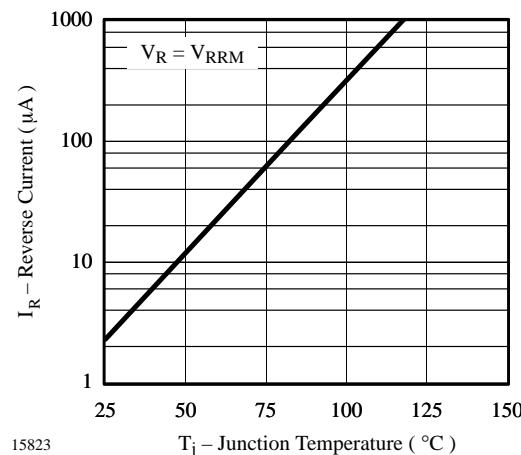


Figure 2. Reverse Current vs. Junction Temperature

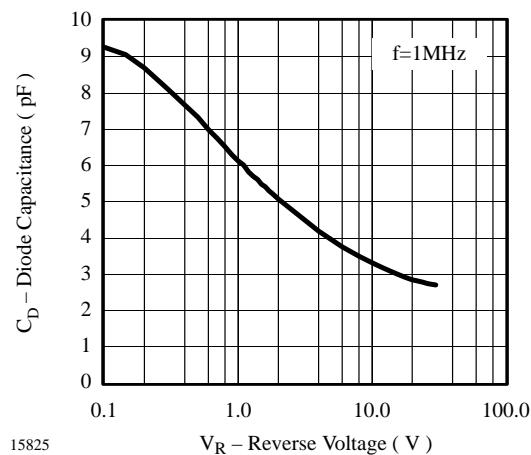


Figure 4. Diode Capacitance vs. Reverse Voltage

Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
minimelf	2500pcs	7inch	20000pcs	186×186×105	120,000pcs	443×215×305