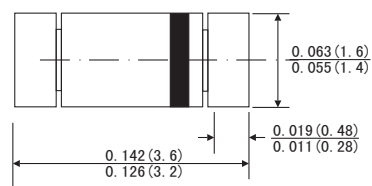


FEATURES

- Low forward voltage drop
- Satisfactory wave detection efficiency
- Small temperature coefficient of forward characteristics
- Extremely low reverse current
- These products are ideal for use in ordinary wave detection and super high speed switching circuits
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU



MiniMELF



MECHANICAL DATA

- Case: MiniMELF glass case
- Polarity: Color band denotes cathode end
- Weight: Approx. 0.05 gram

Dimensions in inches and (millimeters)

ABSOLUTE RATINGS(LIMITING VALUES)

Parameters		Symbols	Value	Units
Reverse voltage	LL700	VR	15	V
	LL700A		30	
Peak revers voltage	LL700	VRM	15	V
	LL700A		30	
Average rectified current		Io	30	mA
Peak forward current		IFM	150	mA
Junction temperature		TJ	125	°C
Storage temperature		TSTG	-55 to +125	°C

ELECTRICAL CHARACTERISTICS (TA= 25°C)

Parameters		Symbols	Test Conditions	Min.	Typ.	Max.	Units
Forward voltage(DC)		VF1	IF=1mA			0.4	V
		VF2	IF=30mA			1	V
Reverse Current	LL700	IR	VR=15V			100	nA
	LL700A		VR=30V			150	
Junction Capacitance		CJ	VR=1V f=1MHz		1.3		pF
Rectifier efficiency		η	Vin=3Vrms f=30MHz RL=3.9kΩ CL=10pF		60		%
Reverse recovery time		trr	IF=IR=10mA IR=1mA, RL=100kΩ		1		ns

Note: 1.Schottky barrier rectifier diode is sensitive to electric shock(static electricity, etc.).Due attention must be paid on charge of a human body and leakage from the equipment used.

RATINGS AND CHARACTERISTICS CURVES LL700,LL700A

Figure 1. Forward voltage VS. forward current

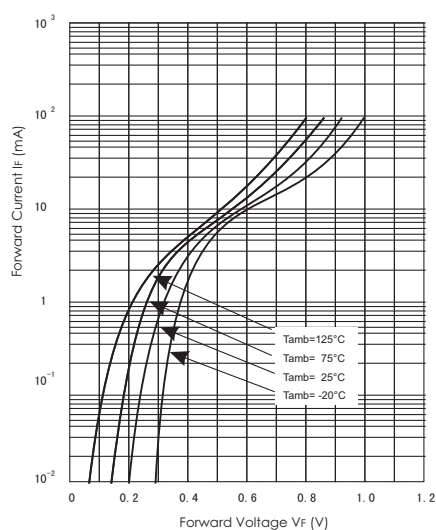


Figure 3. LL700 Reverse characteristics

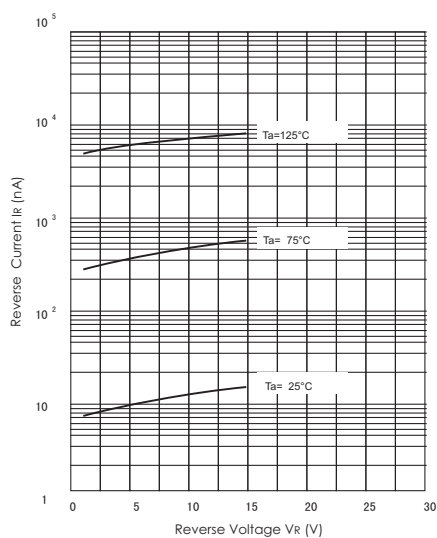


Figure 2. Forward voltage VS. Ambient Temperature

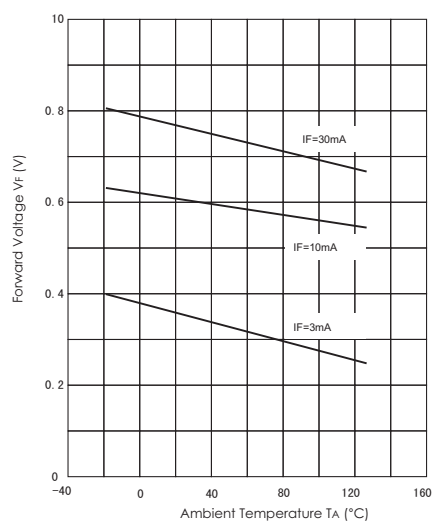


Figure 4. LL700 Junction Capacitance

