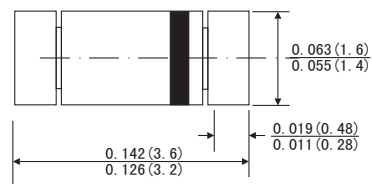


### FEATURES

- 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.	Unis
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 Irr=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

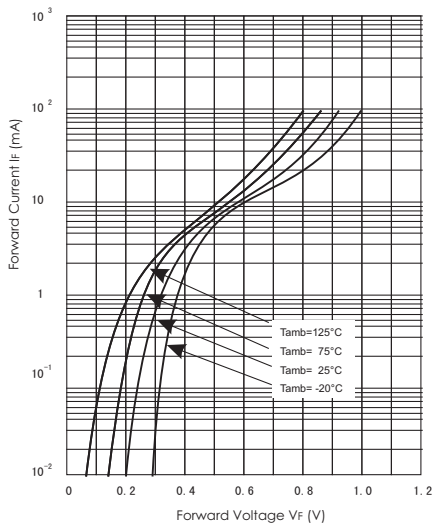


Figure 3. LL700 Reverse characteristics

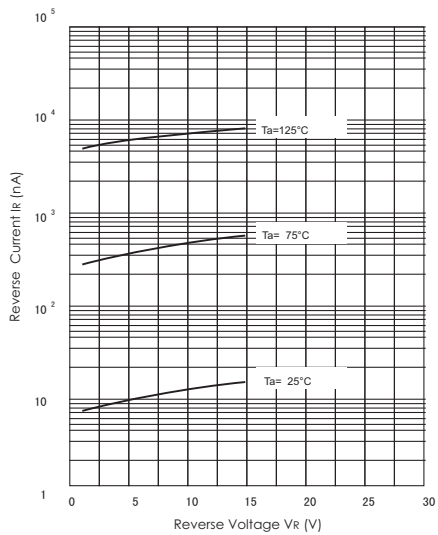


Figure 2. Forward voltage VS. Ambient Temperature

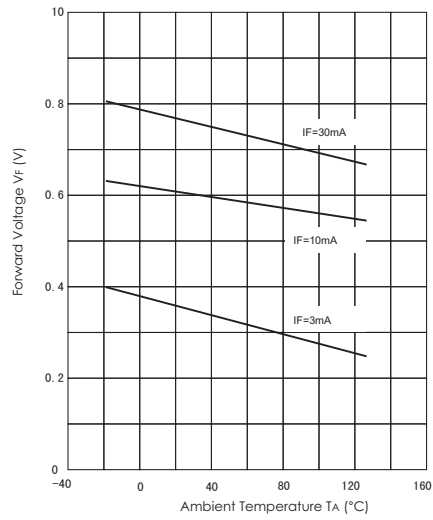


Figure 4. LL700 Junction Capacitance

