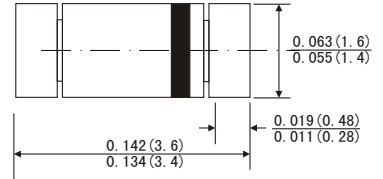




FEATURES

- 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

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	V _R	15	V
	LL700A		30	
Peak revers voltage	LL700	V _{RM}	15	V
	LL700A		30	
Average rectified current		I _o	30	mA
Peak forward current		I _{FM}	150	mA
Junction temperature		T _J	125	°C
Storage temperature		T _{STG}	-55 to +125	°C

ELECTRICAL CHARACTERISTICS (T_A= 25 °C)

Parameters	Symbols	Test Conditions	Min.	Typ.	Max.	Unis
Forward voltage(DC)	V _{F1}	I _F =1mA			0.4	V
	V _{F2}	I _F =30mA			1	V
Reverse Current	I _R	V _R =15V			100	nA
		V _R =30V			150	
Junction Capacitance	C _J	V _R =1V f=1MHz		1.3		pF
Rectifier efficiency	η	V _{in} =3Vrms f=30MHz R _L =3.9kΩ C _L =10pF		60		%
Reverse recovery time	t _{rr}	I _F =I _R =10mA I _R =1mA, R _L =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.



Figure 1. Forward voltage VS. forward current

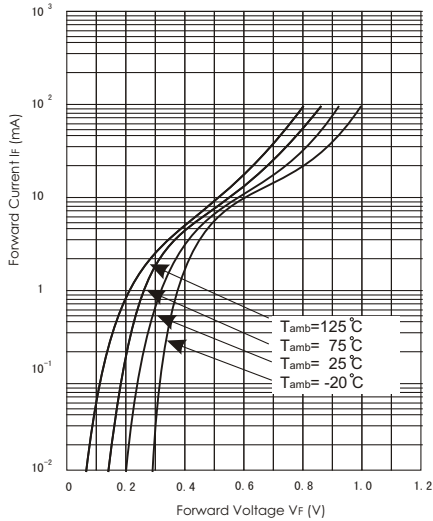


Figure 3. LL700 Reverse characteristics

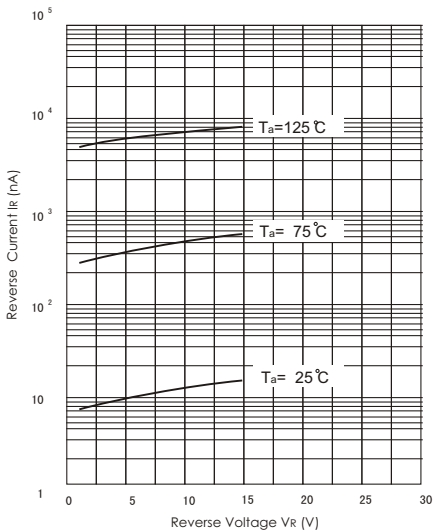


Figure 2. Forward voltage VS. Ambient Temperature

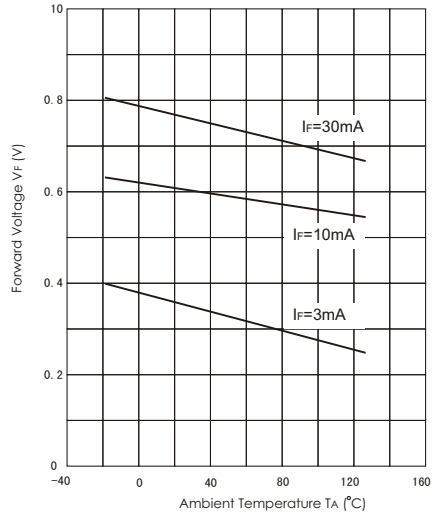


Figure 4. LL700 Junction Capacitance

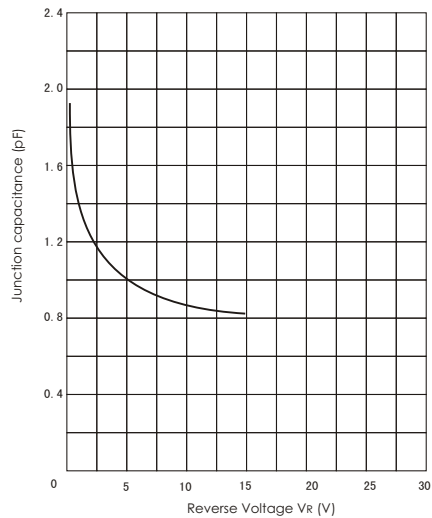


Figure 5. LL700 reverse current temperature characteristics

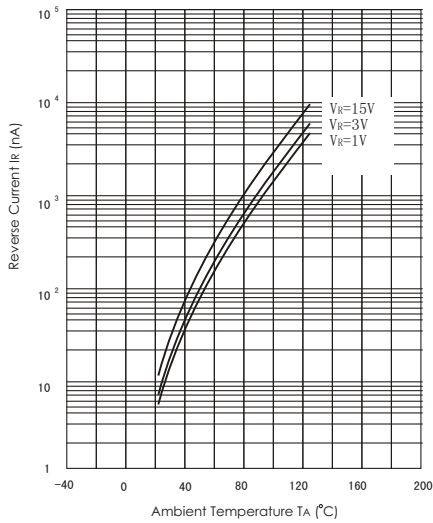


Figure 7. LL700A Junction Capacitance

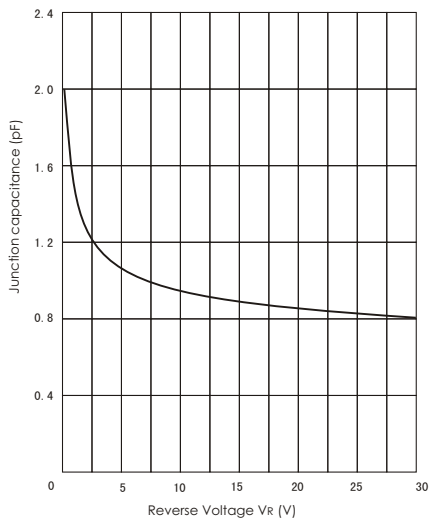


Figure 6. LL700A reverse characteristics

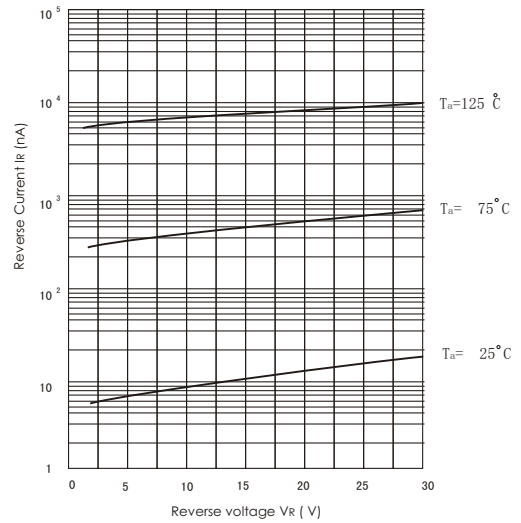


Figure 8. LL700A reverse current temperature characteristics

