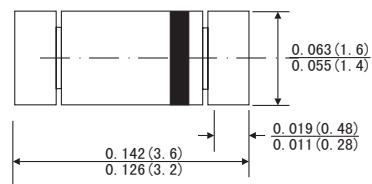


FEATURES

- 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	15	V
	LL700A	30	
Peak revers voltage	LL700	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 (TA= 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	$V_{in}=3V_{rms}$ $f=30MHz$ $R_L=3.9k\Omega$ $C_L=10pF$		60		%
Reverse recovery time	t_{rr}	$I_f=I_r=10mA$ $I_{rr}=1mA, R_L=100k\Omega$		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

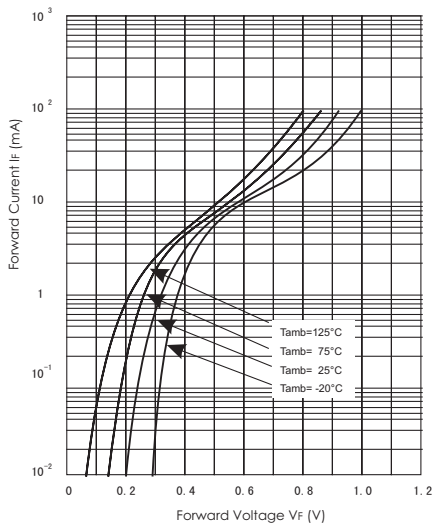


Figure 3. LL700 Reverse characteristics

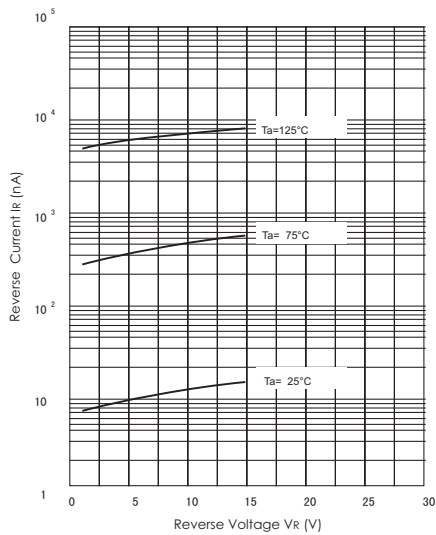


Figure 2. Forward voltage VS. Ambient Temperature

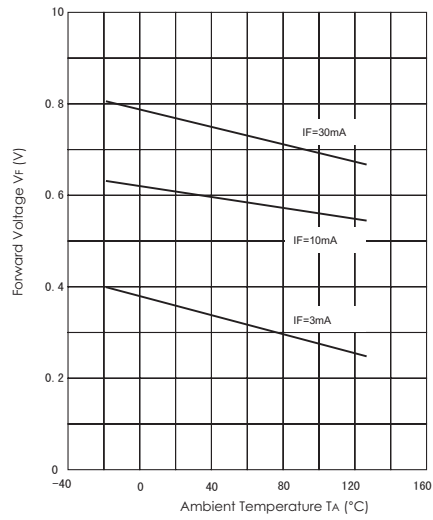


Figure 4. LL700 Junction Capacitance

