SEMICONDUCTOR

LL700/LL700A

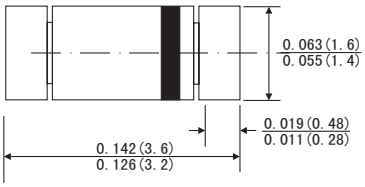
SMALL SIGNAL SCHOTTKY DIODES

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℃/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU



MiniMELF



Dimensions in inches and (millimeters)

MECHANICAL DATA

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

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	LL700	I_R	V_R=15V			100	nA
	LL700A		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_{rr}=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.

RATINGS AND CHARACTERISTICS CURVES LL700,LL700A

Figure 1. Forward voltage VS. forward current

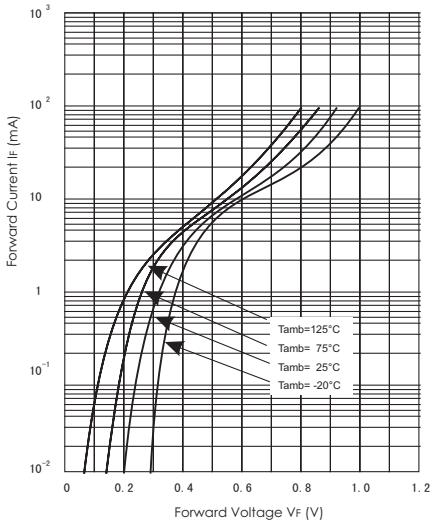


Figure 2. Forward voltage VS. Ambient Temperature

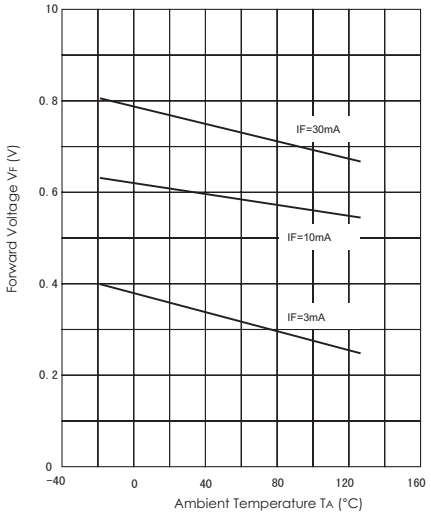


Figure 3. LL700 Reserse characteristics

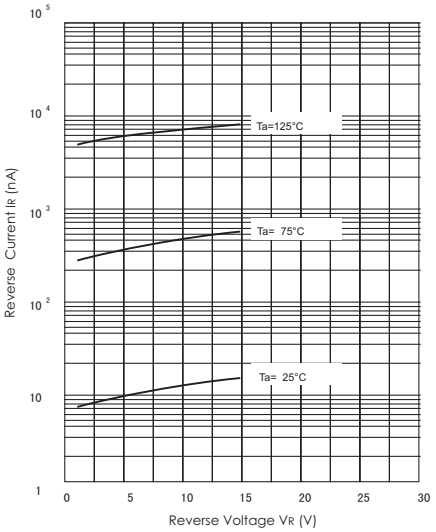


Figure 4. LL700 Junction Capacitance

