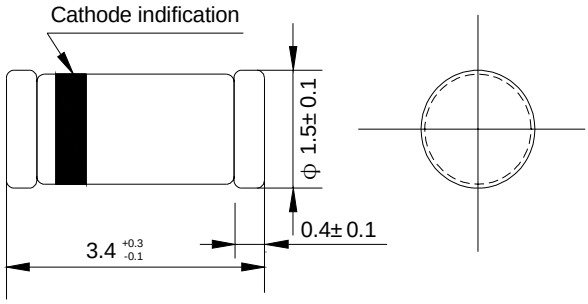
LL5712

Small Signal Schottky Diodes

Reverse Voltage:60-70Volts

Forward Current:10.0Amps

MINI-MELF



Dimension in millimeters

Features

- ◇ Metal-to-silicon junction
- ◇ High breakdown voltage
- ◇ Low turn-on voltage
- ◇ Ultrafast switching speed
- ◇ Prmarly intended for high level UHF/VHF detection and pulse applications with broad dynamic range

Mechanical Data

- ◇ Case:JEDEC MINI-MELF,glass case
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: Approx 0.031 grams

ABSOLUTE RATINGS(LIMITING VALUES)

	Symbols	Value	UNITS
Peak reverse voltage	V_{RRM}	20.0	V
Power dissipation (Infinite Heat Sink)	P_{tot}	430.0	mW
Forward continuous current	I_{FSM}	35.0	mA
Junction and storage temperature range	T_J/T_{STG}	-55 ---+ 150	℃
Maximum lead temperature for soldering during 10S at 4mm from case	T_L	230	℃

ELECTRICAL CHARACTERISTICS

	Symbols	Min.	Typ.	Max.	UNITS
Reverse breakdown voltage @ I_R=10μA	V_R	20.0			V
Leakage current @ V_R=16V	I_R			150	nA
Forward voltage drop @ I_F=1mA Test pulse: tp≤300μs δ<2% I_F=35mA	V_F			0.41 1.0	V
Junction capacitance @ V_R=0V,f=1MHz	C_J			2	pF
Thermal resistance	$R_{\theta JA}$			400	K/W

Ratings AND Charactieristic Curves

FIG.1 – TYPICAL CURRENT VERSUS FORWARD VOLTAGE AT DIFFERENT TEMPERATURES (TYPICAL VALUES)

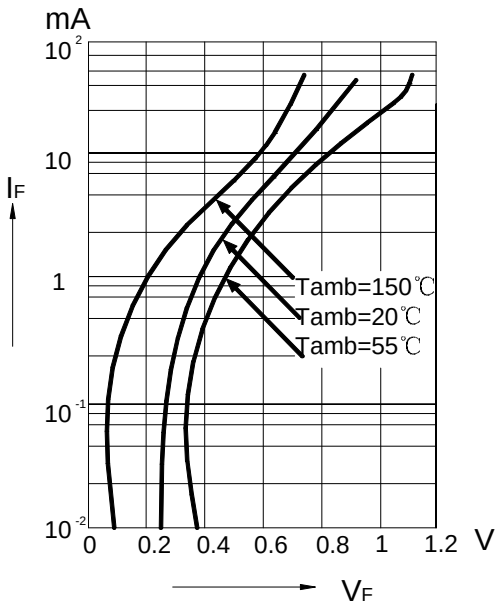
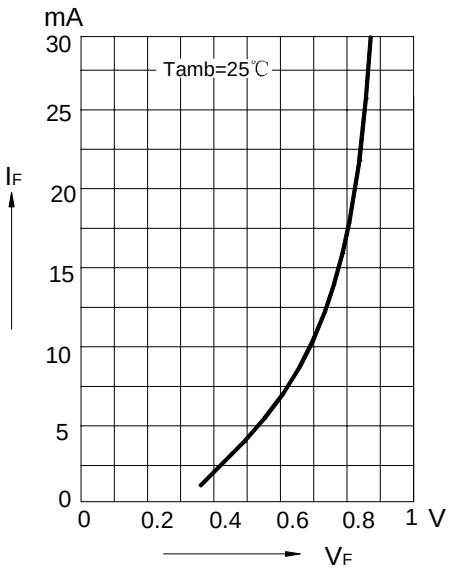


FIG.2 –FORWARD CURRENT VERSUS FORWARD VOLTAGE (TYPICAL VALUES)



Ratings AND Charactieristic Curves

FIG.3 –REVERSE CURRENT VERSUS AMBIENT TEMPERATURE

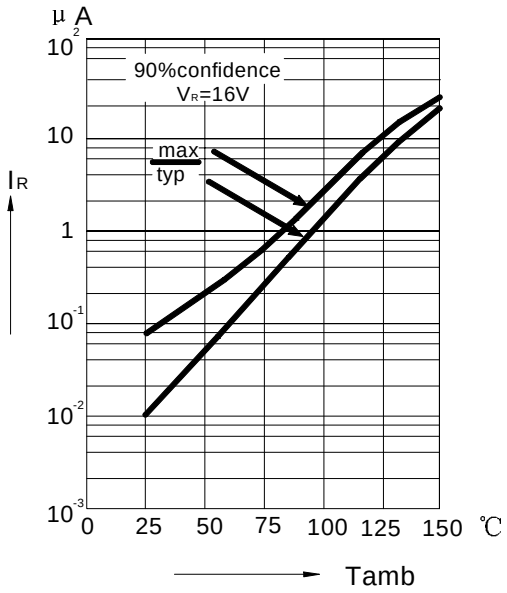


FIG.4 – REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE (TYPICAL VALUES)

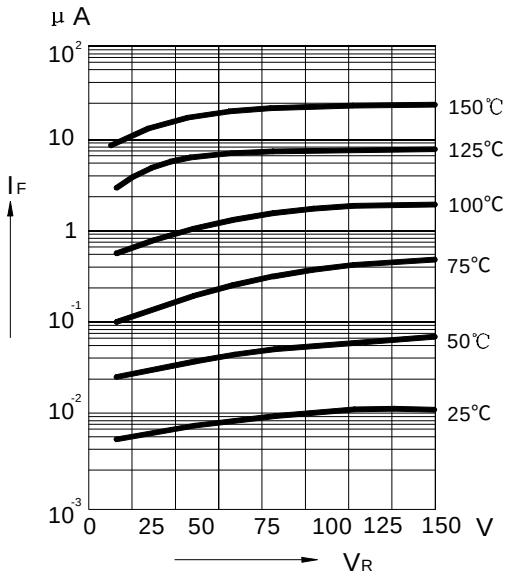
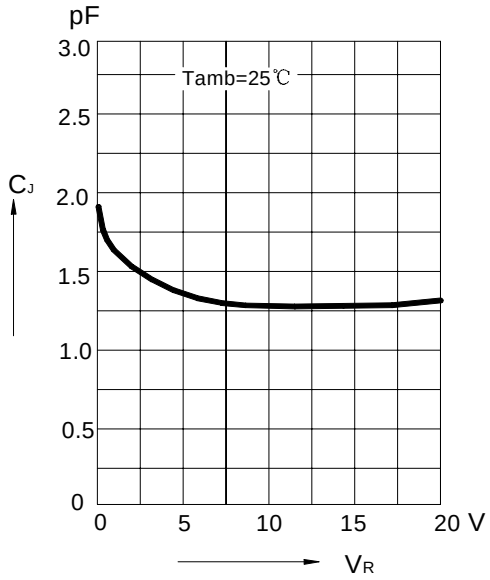


FIG.5 – CAPACITANCE CVERSUS REVERS APPLIED VOLTAGE VR (TYPICAL VALUES)



Package	Reel	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)
minimelf	2500pcs	7inch	20000pcs	186×186×105	120,000pcs	443×215×305