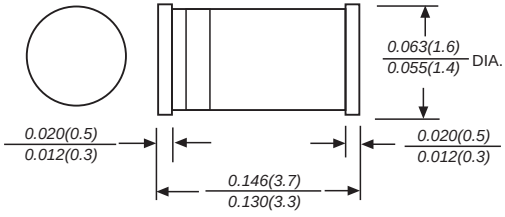
LL60 THRU LL60P

SMALL SIGNAL SCHOTTKY DIODES

Reverse Voltage - 40 to 45 Volts Forward Current - 0.03/0.05 Amperes

MINI MELF



Dimensions in inches and (millimeters)

FEATURES

- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250℃/10S at terminals

MECHANICAL DATA

Case : MINI MELF glass sealed envelope.
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight :0.002 ounce, 0.05 grams

ABSOLUTE RATINGS

Parameters	SYMBOLS	Value		UNITS
		LL60	LL60P	
Repetitive peak reverse voltage	V_{RRM}	40	45	V
Forward continuous current TA=25℃	I_F	30	50	mA
Peak forward surge current(t=1s)	I_{FSM}	150	500	mA
Storage and junction temperature range	T_J,T_{STG}	-65 to +125		°C
Maximum lead tenperature for soldering during 10s at 4mm from case	T_L	230		°C

ELECTRICAL CHARACTERISTICS

Parameters	SYMBOLS	Test conditions		Value			UNITS
				Min.	Typ.	Max.	
Forward voltage	V_F	I_F=1mA	LL60		0.32	0.5	V
			LL60P		0.24	0.5	
		I_F=30mA	LL60		0.65	1.0	
		I_F=200mA	LL60P		0.65	1.0	
Reverse current	I_R	V_R=15V	LL60		0.1	0.5	μA
			LL60P		0.5	1.0	
Junction capacitance	C_J	V_R=1V f=1MHz	LL60		2.0		pF
		V_R=10V f=1MHz	LL60P		6.0		
Detection efficiency	η	V_F=3V f =30MHz C_L=10pF R_L=3.8KΩ			60		%
Reverse recovery time	t_{rr}	I_F=I_R=10mA I_{rr}=1mA R_C=100Ω				1	ns
Thermal resistance, junction to ambient	R_{qJA}				400		°C/W

RATINGS AND CHARACTERISTIC CURVES LL60 THRU LL60P

LL60

FIG. 1-FORWARD CURRENT VERSUS FORWARD VOLTAGE (TYPICAL VALUES)

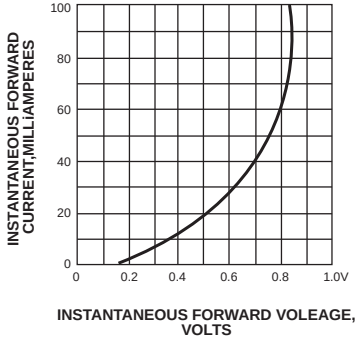


FIG. 2-REVERSE CURRENT VERSUS CONTINUOUS REVERSE VOLTAGE

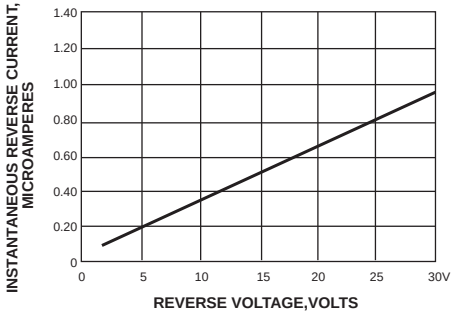
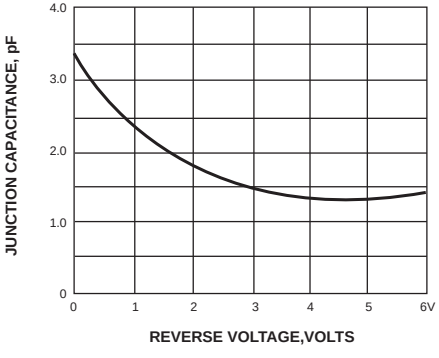


FIG. 3-JUNCTION CAPACITANCE VERSUS CONTINOUS REVERSE APPLIED VOLTAGE



LL60P

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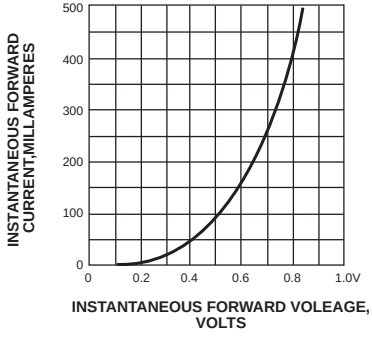

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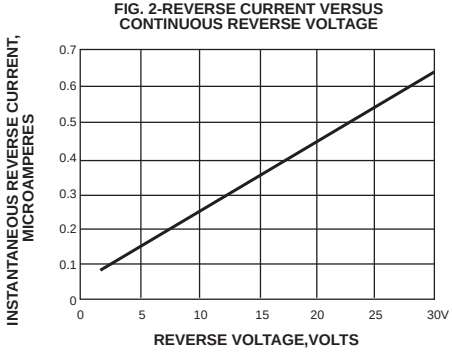

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