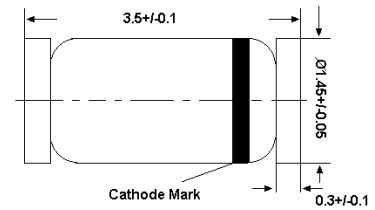


SILICON SCHOTTKY BARRIER DIODE

FEATURES

- ◆Metal silicon junction majority carrier conduction
- ◆High current capability. Low forward voltage drop
- ◆Extremely low reverse current I_R
- ◆Ultra speed switching characteristics
- ◆Small temperature coefficient of forward characteristics
- ◆Satisfactory wave detection efficiency
- ◆For use in RECORDER、TV、RADIO、TELEPHONE as detectors, super high speed switching circuits, small current rectifier



Glass case MiniMELF
Dimensions in mm

LL-34

MECHANICAL DATA

- ◆Case: LL-34
- ◆Weight: approx. 0.05 g

Maximum Ratings ($T_A=25^\circ\text{C}$ Unless otherwise noted)

Characteristic	Symbol	LL60	LL60P	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	45	V
Non-Repetitive Peak Forward Surge Current @ $t=1\text{S}$	I_{FSM}	150	500	mA
Forward Continuous Current, $T_A=25^\circ\text{C}$	I_F	30	50	mA
Junction temperature	T_J	-65 to +125		$^\circ\text{C}$
Storage temperature	T_{STG}	-65 to +125		$^\circ\text{C}$

Electrical Characteristics ($T_A=25^\circ\text{C}$ Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage $I_F=1\text{ mA}$ LL60 LL60P	V_F	-	0.32	0.5	V
$I_F=30\text{ mA}$ LL60		-	0.24	0.5	
$I_F=200\text{ mA}$ LL60		-	0.65	1.0	
$I_F=200\text{ mA}$ LL60P		-	0.65	1.0	
Reverse Current $V_R=15\text{ V}$ LL60 LL60P	I_R	-	0.1	0.5	μA
		-	0.5	1.0	
Junction Capacitance $V_R=1\text{ V}, f=1\text{ MHz}$ LL60 $V_R=10\text{ V}, f=1\text{ MHz}$ LL60P	C_j	-	2.0	-	pF
		-	6.0	-	
Reverse Recovery Time $I_F=I_R=1\text{ mA}, I_{rr}=1\text{ mA}, R_C=100\Omega$	T_{rr}	-	-	1.0	nS

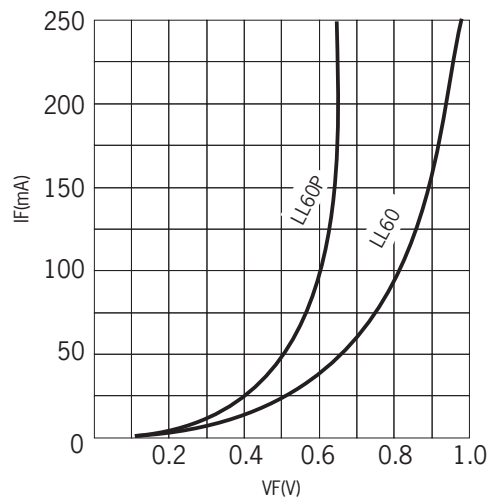


FIG.1 Forward Current vs. Forward Voltage

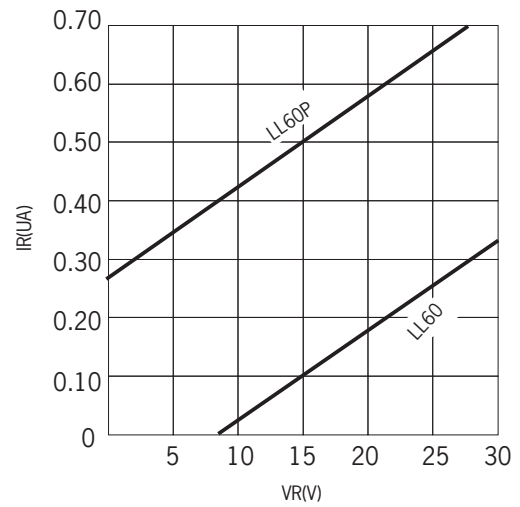


FIG.2 Reverse Current vs. Continuous Reverse Voltage

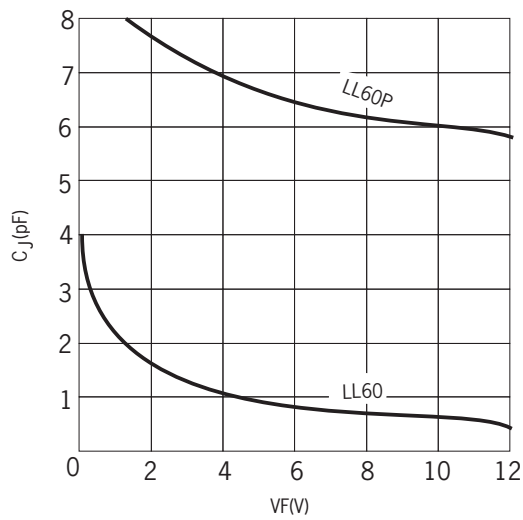


FIG.3 Junction Capacitance vs. Continuous Reverse Applied Voltage

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