

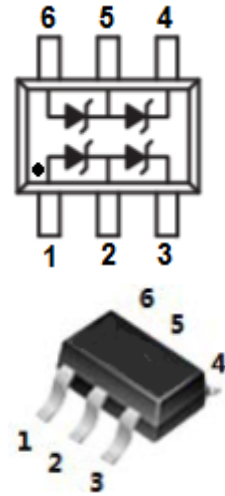


Features

- Low reverse current and low forward voltage
- High reliability
- Small surface mounting type

Typical Applications

- High volume commercial detectors, mixers, switches, and digital pulse forming systems
- Low current rectification



SOT-363

Mechanical Data

- SOT-363
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
LGE3923	SOT-363	3000 pcs / Tape & Reel	3923

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
DC Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Output Current	I _{F(AV)}	30	mA
Peak Forward Surge Current (8.3ms single half sine-wave)	I _{FSM}	0.2	A

Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	100	mW
Thermal Resistance (Junction-to-Ambient) *1	R _{θJA}	625	°C/W
Operating junction Temperature	T _J	125	°C
Storage Temperature Range	T _{STG}	-40 ~ +150	°C



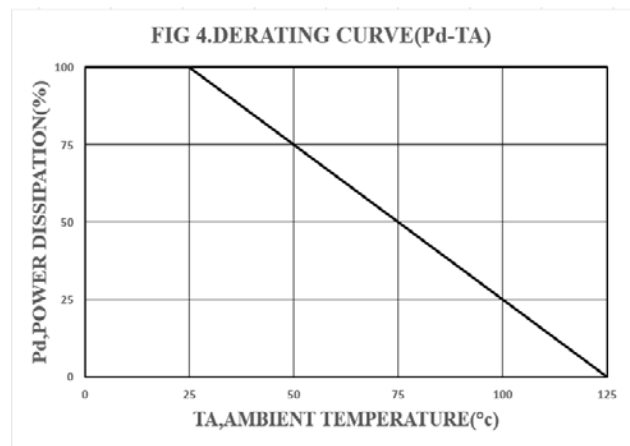
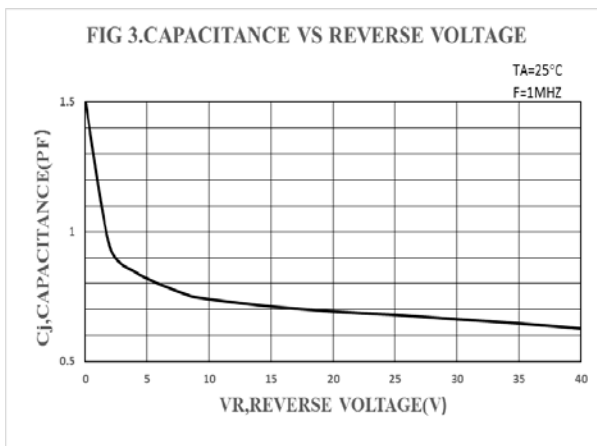
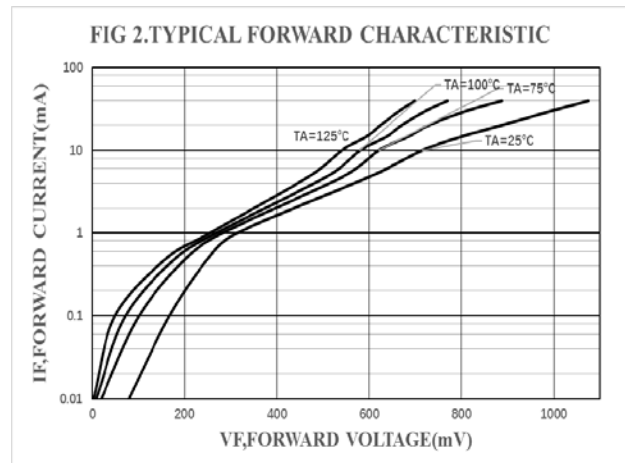
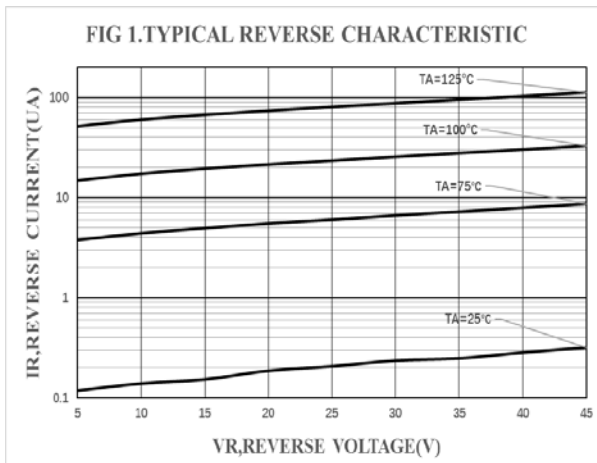
Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage ^{*2}	V_F	$I_F = 1\text{mA}$	-	-	0.37	V
Pair Configuration ^{*2}	ΔV_F	$I_F = 1\text{mA}$	-	-	10	mV
Maximum Peak Reverse Current ^{*3}	I_R	$V_R = 30\text{V}$	-	-	0.5	μA
Capacitance Between Terminals	C_J	$V_R = 1\text{V}, f = 1\text{MHz}$	-	1.2	-	pF

Notes:

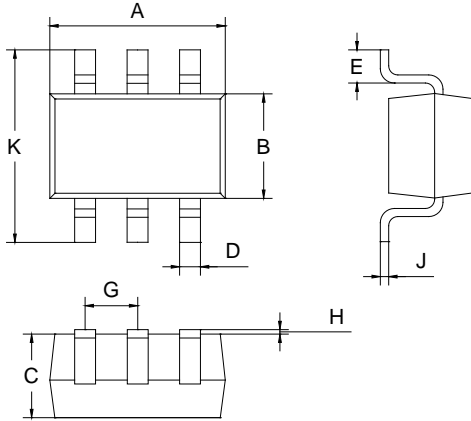
1. Part mounted on FR-4 board with recommended pad layout
2. Pulse width $\leq 380 \mu\text{s}$, Duty cycle $< 2\%$
3. pulse test , $t_p \leq 5\text{ms}$

Ratings and Characteristic Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)





Package Outline Dimensions (Unit: mm)



SOT-363		
Dimension	Min.	Max.
A	2.00	2.20
B	1.15	1.35
C	0.85	1.05
D	0.15	0.35
E	0.25	0.40
G	0.60	0.70
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40

Package Outline Dimensions (Unit: mm)

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