

**SURFACE MOUNT
SCHOTTKY BARRIER DIODE**

**REVERSE VOLTAGE – 40 Volts
FORWARD CURRENT – 0.03 Ampere**

FEATURES

- Low VF drop
- Low reverse current
- High reliability

MECHANICAL DATA

- Case: QFN_1.0*0.6*0.5 package.
- Case Material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture Sensitivity: Level 1 per J-STD-020D
- Lead Free in RoHS 2002/95/EC Compliant

Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	DS751-40LED02	Units
Peak reverse voltage	V _{RM}	40	V
DC reverse voltage	V _R	30	V
Average Rectified Forward Current	I _O	30	mA
Peak Forward Surge Current @ tp=8.3ms	I _{FSM}	150	mA
Operating Temperature Range	T _J	125	°C
Storage Temperature Range	T _{STG}	-40~+125	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	DS751-40LED02	Unit
Maximum Forward Voltage	I _F = 1mA	V _F	370	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 30V	I _R	0.5	uA

REV. 1, Oct-2010, KSHR33

RATING AND CHARACTERISTIC CURVES
DS751-40LED02



FIG.1- TYPICAL FORWARD CHARACTERISTICS

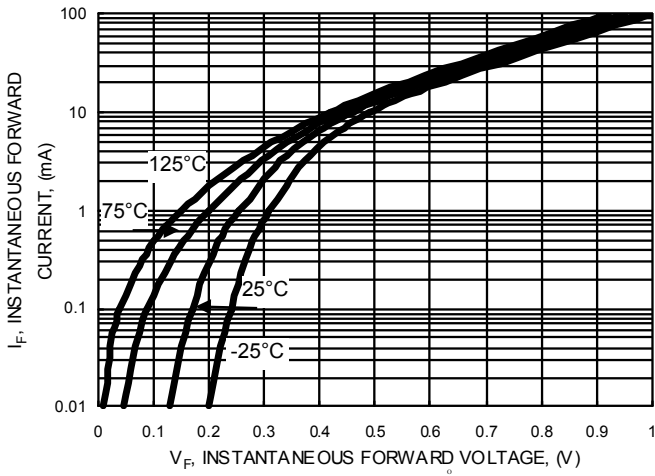


FIG.2- TYPICAL REVERSE CHARACTERISTICS

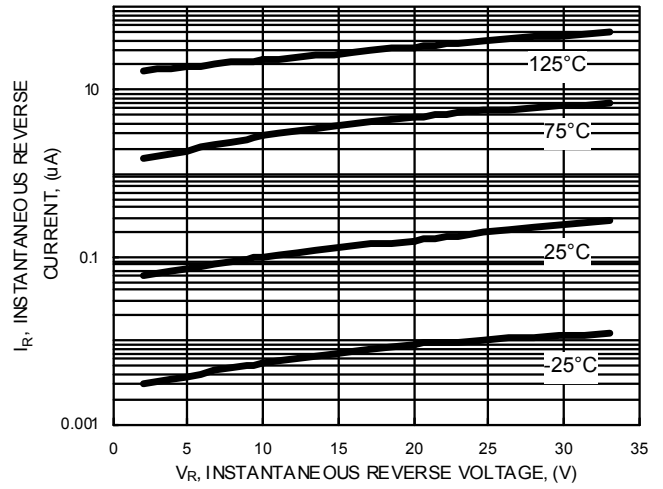
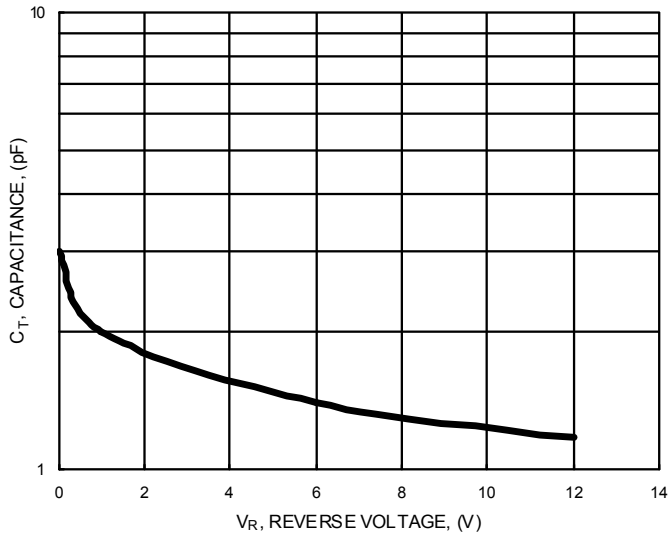


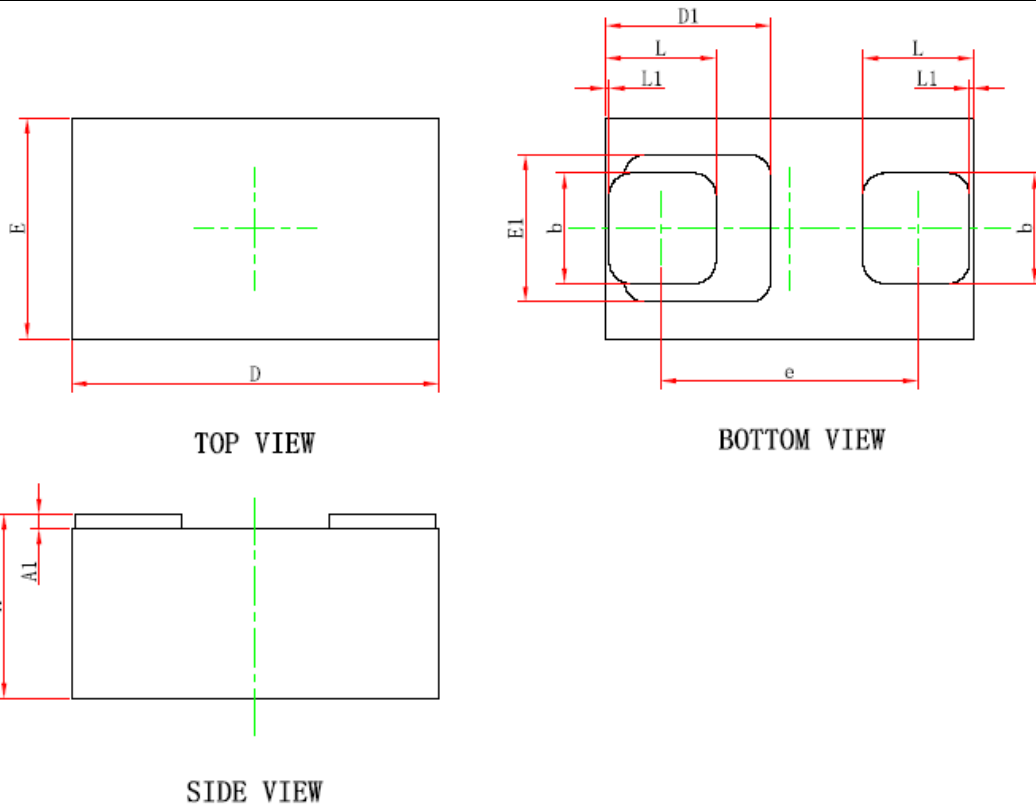
FIG.3- TYPICAL JUNCTION CAPACITANCE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
DS751-40LED02	5	

QFN_1.0*0.6*0.5 Outline Dimension



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450	0.550	0.018	0.022
A1	0.010	0.070	0.000	0.003
D	0.950	1.050	0.037	0.041
E	0.550	0.650	0.022	0.026
D1	0.450REF.		0.018REF.	
E1	0.400REF.		0.016REF.	
b	0.275	0.325	0.011	0.013
e	0.675	0.725	0.027	0.029
L	0.275	0.325	0.011	0.013
L1	0.010REF.		0.000REF.	

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