

**SURFACE MOUNT
SCHOTTKY BARRIER DIODE**

**REVERSE VOLTAGE – 40 Volts
FORWARD CURRENT – 0.1 Ampere**

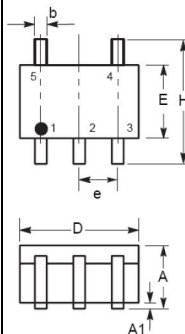
FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast switching

MECHANICAL DATA

- Case: SOT-353 Plastic
- 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

SOT-353



SOT-353		
Dim.	Min.	Max.
A	0.90	1.10
A1	0.00	0.10
b	0.15	0.35
c	0.08	0.15
D	2.00	2.20
E	1.15	1.35
e	0.65 TYP.	
H	2.15	2.45
L	0.525 REF.	
Dimensions in millimeter		

Maximum Ratings & Thermal Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	RB480K	Units
Peak Reverse Voltage	V_{RM}	45	V
DC reverse voltage	V_R	40	
Average Rectified Forward Current	I_O	100	mA
Peak Forward Surge Current @ $t < 10\text{ms}$	I_{FSM}	1	A
Operating Temperature Range	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~+125	$^\circ\text{C}$

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

Characteristic	Test Condition	Symbol	RB480K	Unit
Maximum Forward Voltage	$I_F = 10\text{mA}$ $I_F = 100\text{mA}$	V_F	450 600	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	$V_R = 10\text{V}$ $V_R = 40\text{V}$	I_R	1 5	μA
Typical Diode Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$	C_D	25	pF

REV. 2, Oct-2010, KSHR36

RATING AND CHARACTERISTIC CURVES

RB480K



FIG.1- TYPICAL FORWARD CHARACTERISTICS

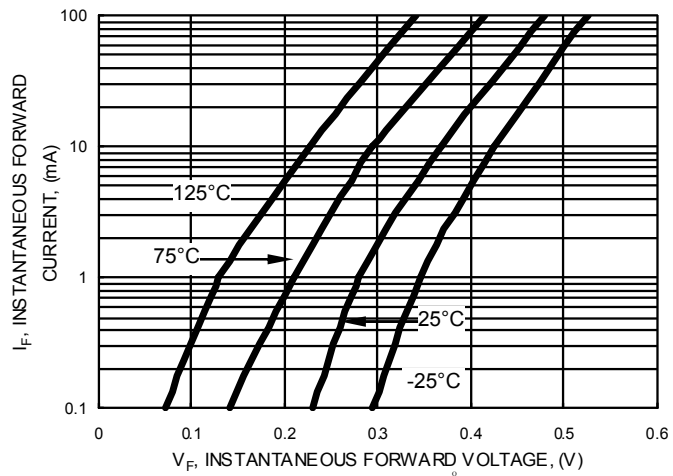


FIG.2- TYPICAL REVERSE CHARACTERISTICS

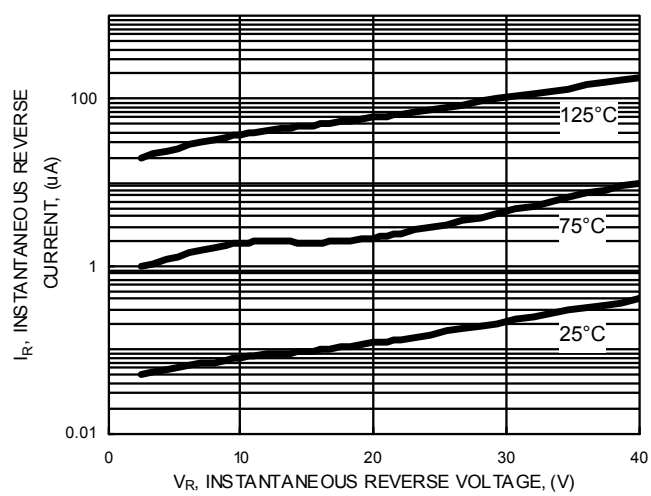
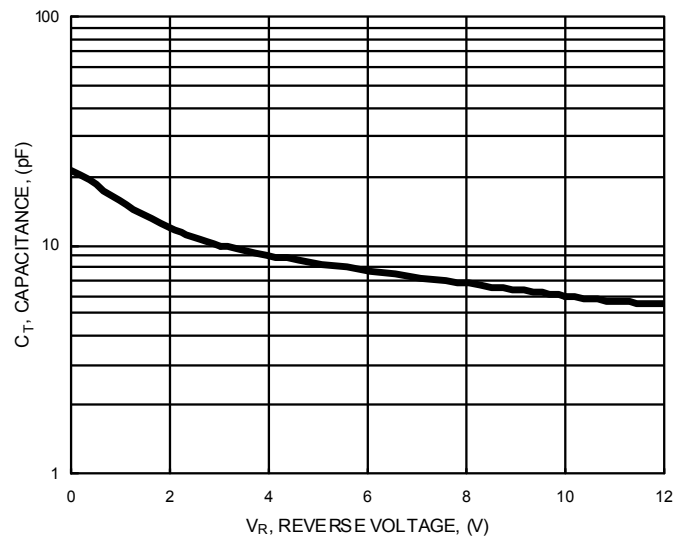


FIG.3- TYPICAL JUNCTION CAPACITANCE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB480K	3T	<div>1</div> <div>2</div> <div>3</div> <div>5</div> <div>4</div>
		<div>1</div> <div>2</div> <div>3</div> <div>5</div> <div>4</div>
		<div>1</div> <div>2</div> <div>3</div> <div>5</div> <div>4</div>

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