



# RB731UTW

## SURFACE MOUNT TRIPLE SCHOTTKY DIODES

This device features three electrically-isolated Schottky diodes housed in a very small SOT-363 package. It is ideal for applications where board space is at a premium.

### FEATURES

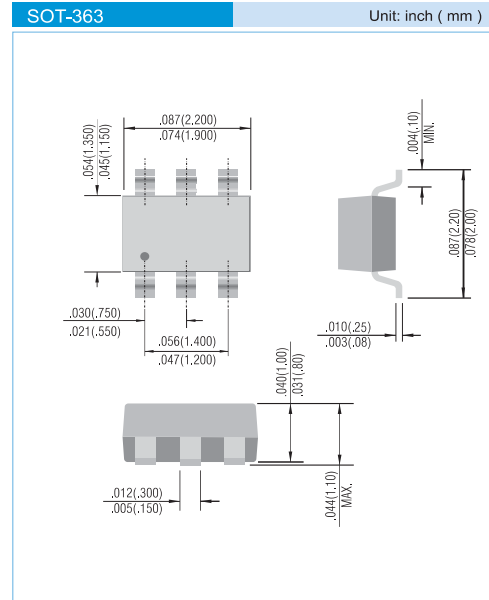
- Low reverse leakage current (guaranteed <math> < 0.98\mu\text{A}@25\text{V}</math>)
- Reverse voltage rating of 40V
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case : SOT-363 plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx Weight : 0.006 gram
- Marking : 73E

### APPLICATIONS

- Mobile phones and accessories
- Video game consoles connector ports
- PDA'S



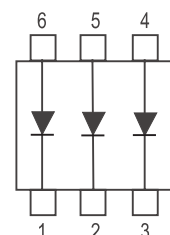
### MAXIMUM RATINGS (Per Diode) $T_J=25^\circ\text{C}$ Unless otherwise noted

Rating	Symbol	Value	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Continuous Reverse Voltage	$V_R$	40	V
Average Rectified Forward Current	$I_O$	30	mA
Non-repetitive Peak Forward Current (60Hz, 1 cycle)	$I_{FSM}$	200	mA
Total Power Dissipation (Note 1)	$P_{TOT}$	200	mW
Operating Junction Temperature Range	$T_J$	-55 to 125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to 150	$^\circ\text{C}$

### THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Units
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	625	$^\circ\text{C}/\text{W}$

NOTE : 1. FR-4 Board = 70 x 60 x 1mm.



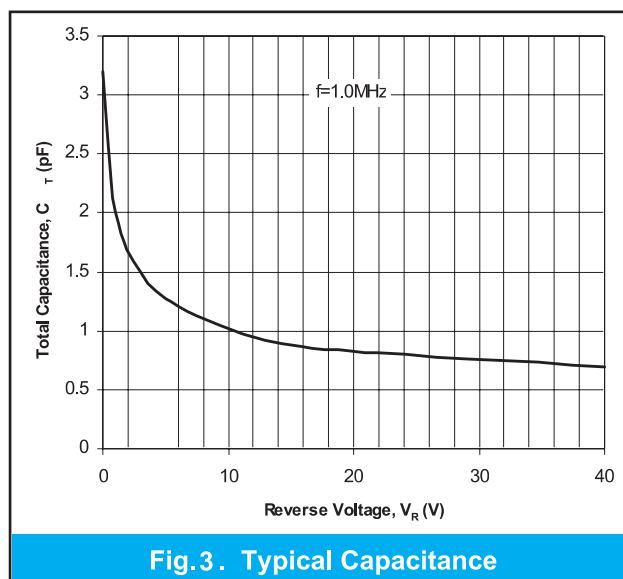
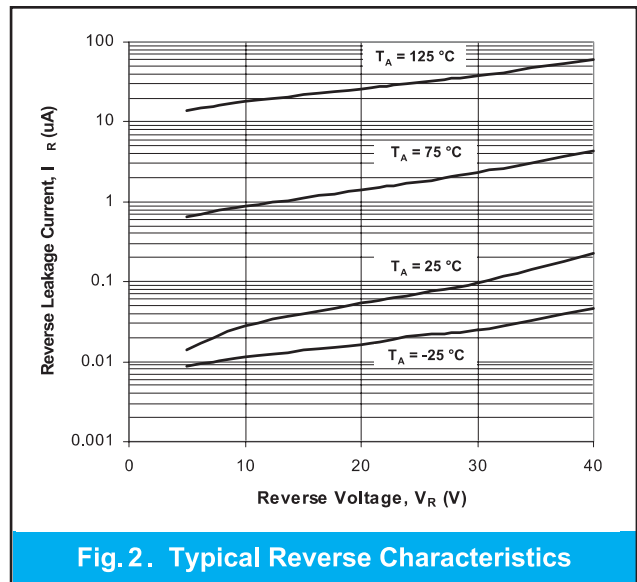
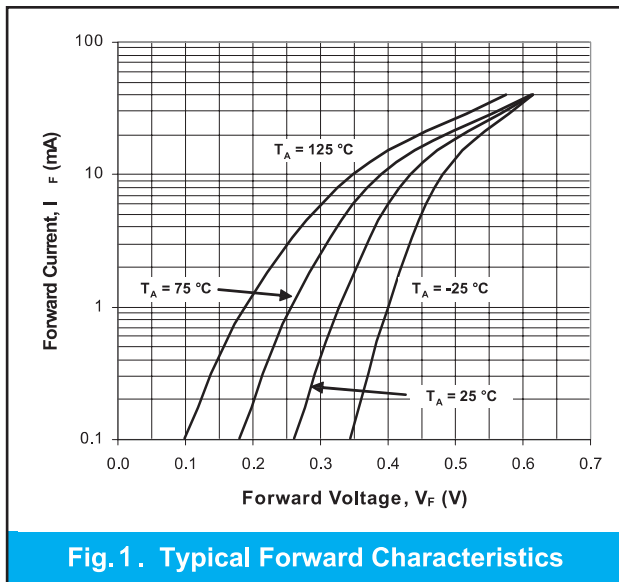


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## ELECTRICAL CHARACTERISTICS (Per Diode) $T_J=25^\circ\text{C}$ Unless otherwise noted

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Breakdown Voltage	$V_{BR}$	$I_{BR}=10\ \mu\text{A}$	40	-	-	V
Forward Voltage	$V_F$	$I_F=1\text{mA}$	-	-	370	mV
Reverse Leakage Current	$I_R$	$V_R=25\ \text{V}$	-	-	0.98	$\mu\text{A}$
Total Capacitance	$C_T$	1Vdc Bias, $f=1\text{MHz}$	-	2.0	5.0	pF

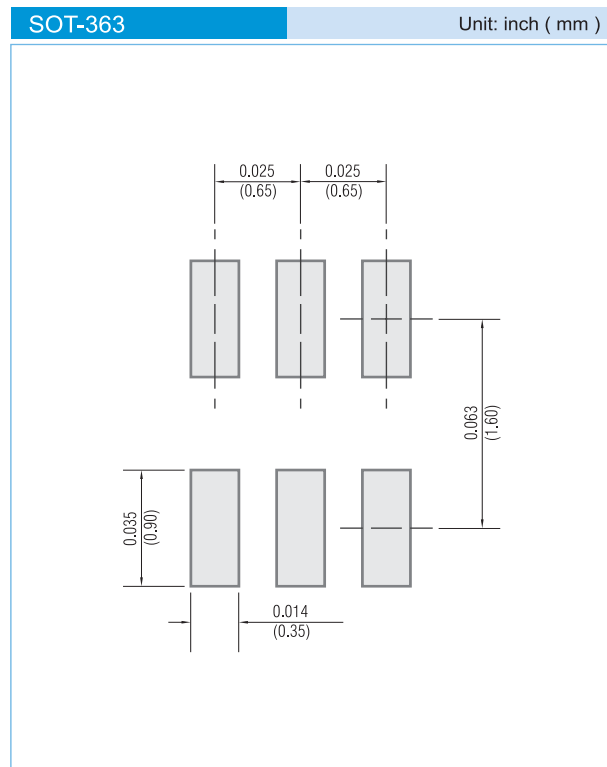
## TYPICAL CHARACTERISTIC CURVES (Per Diode)





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## MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information
  - T/R - 10K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel

### LEGAL STATEMENT

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