



# 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

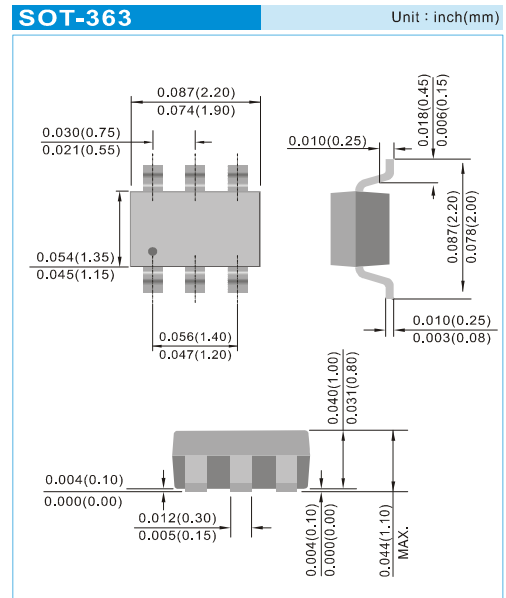
- Low reverse leakage current (guaranteed < 0.98  $\mu\text{A}@25\text{V}$ )
- Reverse voltage rating of 40V
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case : SOT-363 plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx Weight : 0.0002 ounces, 0.006 grams
- Marking : 73E

### APPLICATIONS

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



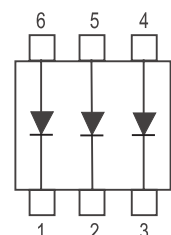
### MAXIMUM RATINGS (Per Diode) $T_J=25^\circ\text{C}$ Unless otherwise noted

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.



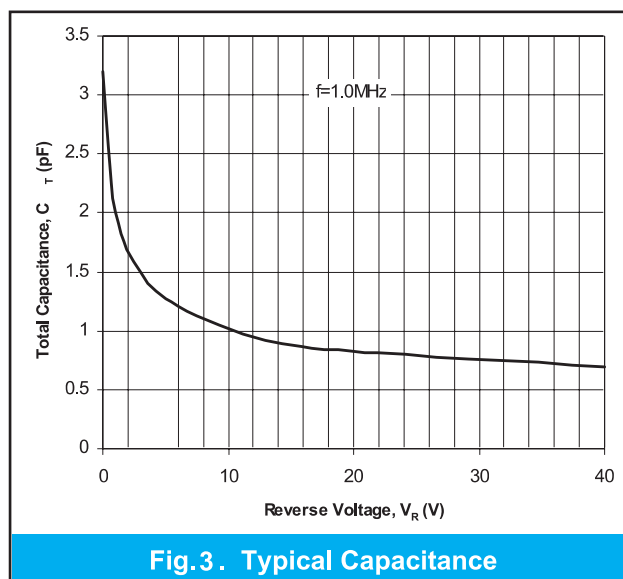
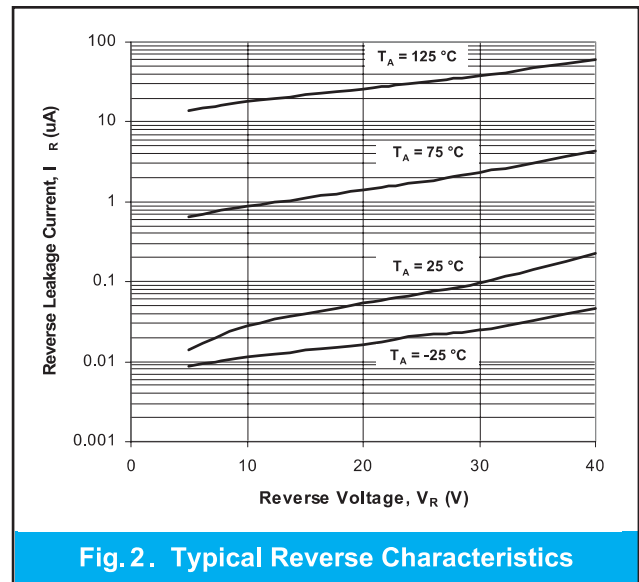
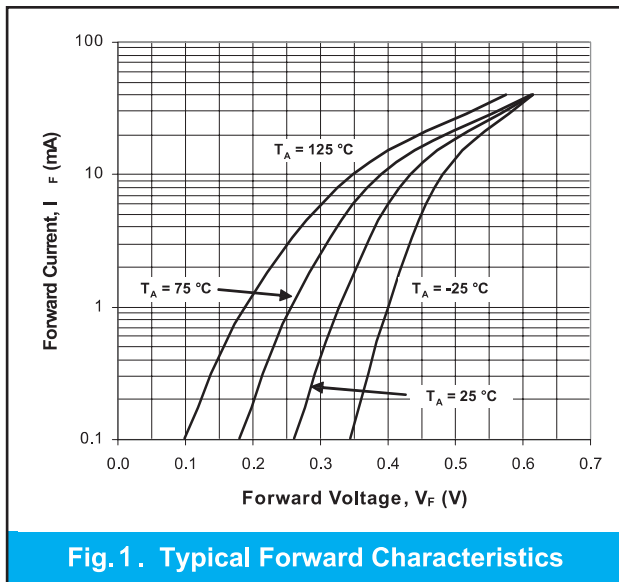


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## ELECTRICAL CHARACTERISTICS (Per Diode) $T_J=25^\circ\text{C}$ Unless otherwise noted

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

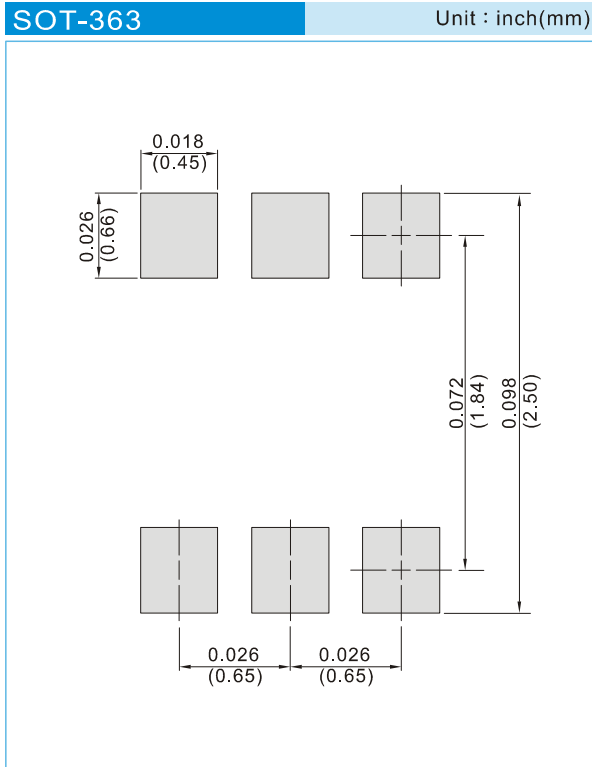
## TYPICAL CHARACTERISTIC CURVES (Per Diode)





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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



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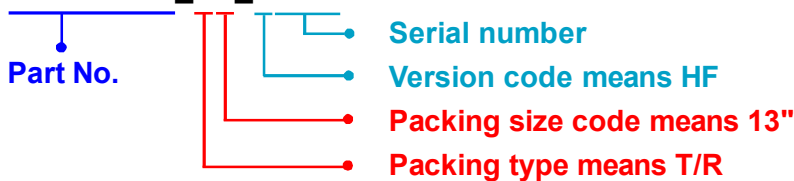
## Part No\_packing code\_Version

RB731UTW\_R1\_00001

RB731UTW\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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