



SURFACE MOUNT TRIPLE SCHOTTKY DIODES

This device features three electrically-isolated Schottky diodes housed in a very small SOT-23 6L package. It is ideal for applications where board space is at a premium.

FEATURES

- Low reverse leakage current (guaranteed <0.98uA @ 25V)
- Reverse voltage rating of 40V
- Lead-free plating (100% matte tin finish)
- '@/UX'ZfYY']b'Wca d']UbWY'k]h\ '91 'Fc<G'&\$%/#)#91 'X]fYWf]j Y''
- ; fYYb'a c`X]b['Wca dci bX'Ug'dYf'=97*%&(- 'GhX""fk Uc[Yb': fYYŁ

APPLICATIONS

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

Device Marking: 731

MAXIMUM RATINGS (Per Diode) T_J = 25°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 ₀	30	mA
Non-repetitive Peak Forward Current (60Hz, 1 cycle)	I _{FSM}	200	mA
Total Power Dissipation (Note 1)	P _{tot}	225	mW
Operating Junction Temperature Range	T _J	-55 to 125	°C
Storage Temperature Range	T _{stg}	-65 to 150	°C

Note 1. FR-4 Board 70 x 60 x 1mm.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Units
Thermal Resistance, Junction to Ambient	R _{thetaJA}	556	°C/W

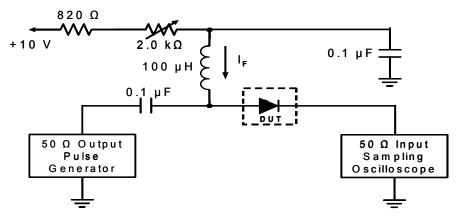




ELECTRICAL CHARACTERISTICS (Per Diode) Tj = 25°C Unless otherwise noted

Parameter	Symbol	Conditions	Min	Тур	Max	Units
Breakdown Voltage (Note 1)	V_{BR}	I _{BR} = 10uA	40	-	-	V
Forward Voltage (Note 1)	V _F	I _F = 1mA	-	-	370	mV
Reverse Leakage Current (Note 1)	I _R	V _R = 25V	-	-	0.98	uA
Total Capacitance	Ст	1Vdc Bias, f =1 MHz	-	2.0	5.0	pF
Reverse Recovery Time (See Figure 1)	t _{rr}	I_F = 10mA, I_R = 10mA R $_L$ = 100 Ohms; measured at I_{Rrec} = 1mA	-	1	5.0	ns

Note 1. Short duration pulse to minimize self-heating effect



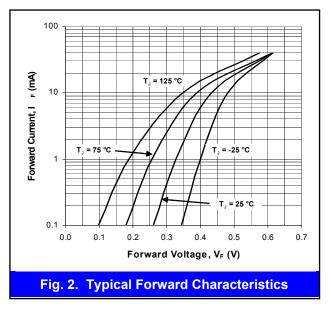
Notes: 1. A $2.0k\Omega$ variable resistor adjusted for a forward current (I_F) to 10mA 2. Input pulse is adjusted to I_{R(peak)} is equal to 10mA

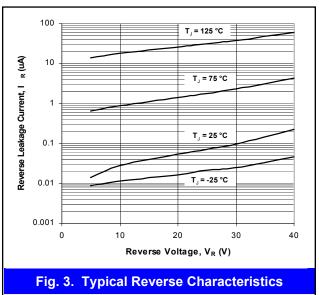
Figure 1. REVERSE RECOVERY TIME EQUIVALENT TEST CIRCUIT

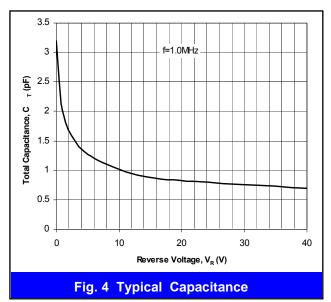




TYPICAL CHARACTERISTIC CURVES (Per Diode)







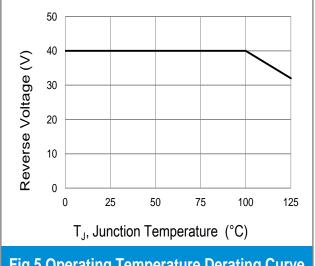
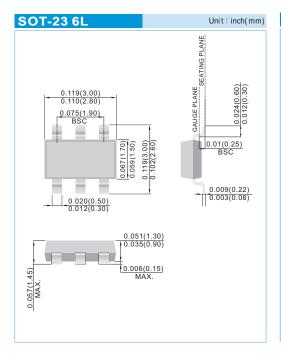


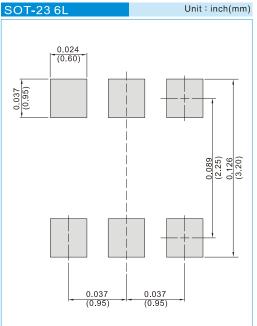
Fig.5 Operating Temperature Derating Curve





PACKAGE LAYOUT AND SUGGESTED PAD DIMENSIONS





ORDERING INFORMATION

RB731U T/R7 - 7" reel, 3K units per reel

RB731U T/R13 - 13" reel, 10K units per reel





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Part No_packing code_Version

RB731U_R1_00001 RB731U_R2_00001

For example:



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

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