



SURFACE MOUNT SCHOTTKY DIODE ARRAYS

VOLTAGE 30 Volt POWER 200 mWatt

FEATURES

Isolated diode arrays for significant board space savings Surface mount package ideally suited for automatic insertion

Extremely Fast Switching Speed Very Low VF: 0.347V (Typ) at IF = 10mA

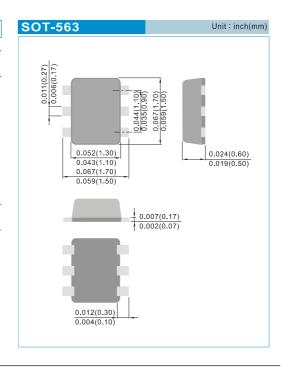
Lead free in compliance with EU RoHS 2011/65/EU directive Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOT-563 plastic

Terminals : Solderable per MIL-STD-750, Method 2026 Approx Weight : 0.00009 ounces, 0.0026 grams

Marking: TK



ABSOLUTE RATINGS (each diode)

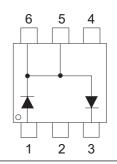
Parameter	Symbol	Value	Units
Maximum Reverse Voltage	VR	30	V
Peak Reverse Voltage	VRRM	30	V
Continuous Forward Current	lf	0.2	А

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation (Note 1)	Ртот	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	Rθла	625	°C/W
Junction Temperature	TJ	-55 to 125	°C
Storage Temperature	Тѕтс	-55 to 150	°C

NOTE:

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







ELECTRICAL CHARACTERISTICS (each diode) (TA=25°C, unless otherwise noted)

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V _(BR)	I r=100 uA	30	-	-	V
Reverse Current	l R	V _R =25 V	-	-	2.0	μΑ
Forward Voltage	VF	I F=0.1mA I F=1.0mA I F=10mA I F=30mA I F=100mA	- - - -	- - 0.347 - -	0.24 0.32 0.40 0.50 0.60	V
Total Capacitance	Ст	VR=1V, f=1.0MHz	-	-	10	pF





TYPICAL CHARACTERISTIC CURVES

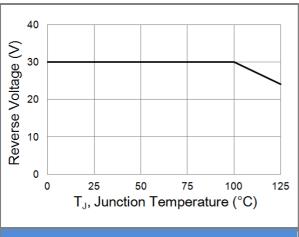


Fig.1 Operating Temperature Derating Curve

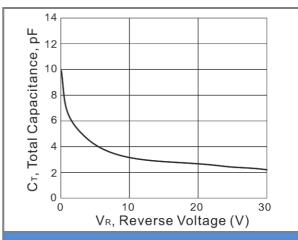


Fig.2 Typical Junction Capacitance

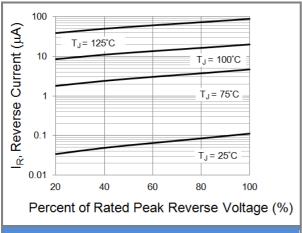


Fig.3 Typical Reverse Characteristics

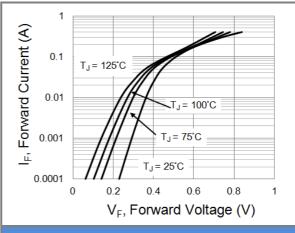
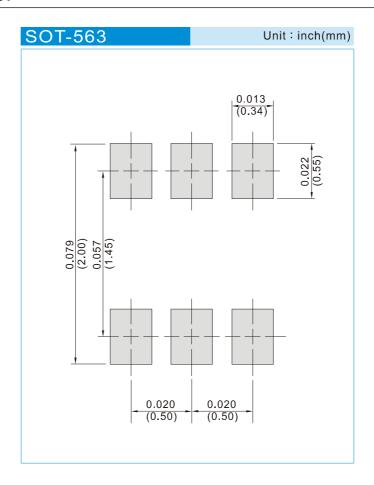


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 4K per 7" plastic Reel

T/R - 8K per 7" plastic Reel

T/R - 10K per 13" plastic Reel

T/R - 20K per 13" plastic Reel





Part No_packing code_Version

BAT54TB6_R1_00001 BAT54TB6_R2_00001 BAT54TB6_R1_00002 BAT54TB6_R2_00002

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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