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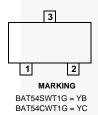
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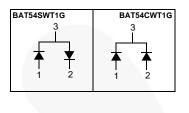


BAT54SWT1G / BAT54CWT1G Schottky Diodes





Connection Diagram



Ordering Information

Part Number	Top Mark	Package	Packing Method
BAT54SWT1G	YB	SC70 3L (SOT-323)	Tape and Reel
BAT54CWT1G	YC	SC70 3L (SOT-323)	Tape and Reel

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value	Unit
V _{RRM}	Maximum Repetitive Reverse Voltage	30	V
I _{F(AV)}	Average Rectified Forward Current 200		mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current Pulse Width = 1.0 second	600	mA
T _{STG}	Storage Temperature Range	-65 to +150	°C
TJ	Operating Junction Temperature	-65 to +125	°C

BAT54SWT1G / BAT54CWT1G — Schottky Diodes

Thermal Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Value	Unit
PD	Power Dissipation	232	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction-to-Ambient ⁽¹⁾	430	°C/W

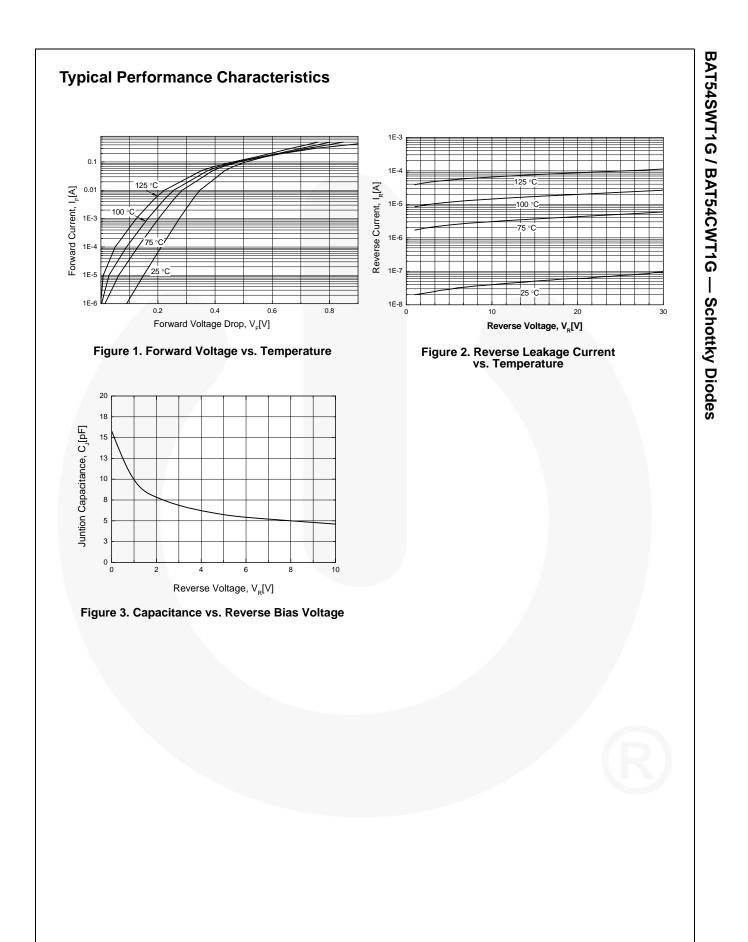
Note:

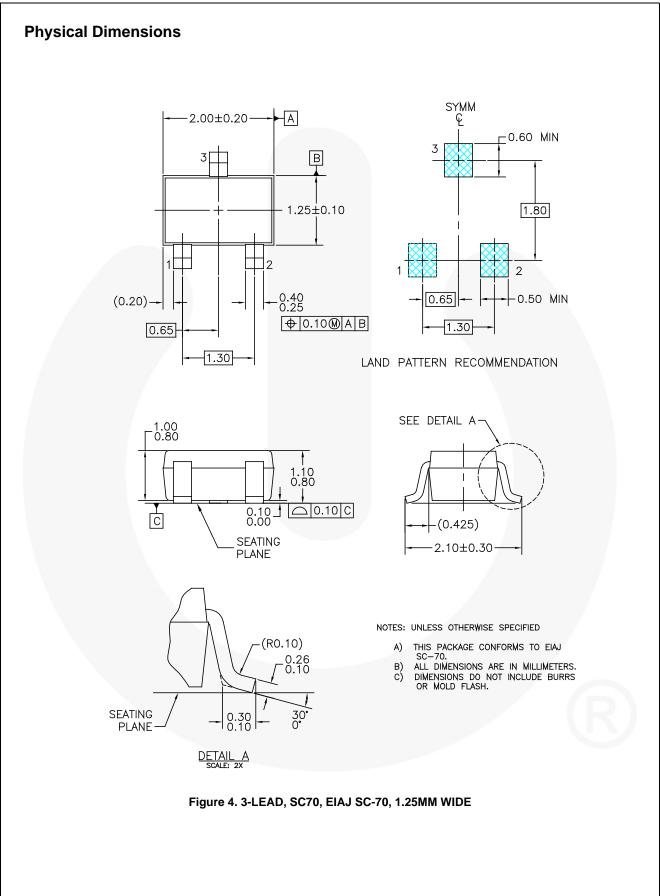
1. FR-4 board (3.0 × 4.5 × 0.062" by 1.0 × 0.5" land pads)

Electrical Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Max.	Unit
V _R	Breakdown Voltage	I _R = 10 μA	30		V
		I _F = 0.1 mA		240	
	Forward Voltage	I _F = 1 mA		320	mV
V _F		I _F = 10 mA		400	
		I _F = 30 mA		500	
		I _F = 100 mA		800	
I _R	Reverse Leakage	V _R = 25 V		2	μA
CT	Total Capacitance	V _R = 1 V, f = 1.0 MHz		10	pF
t _{rr}	Reverse Recovery Time	$I_{F} = I_{R} = 10 \text{ mA}, I_{RR} = 1.0 \text{ mA}, R_{L} = 100 \Omega$		5.0	ns





BAT54SWT1G / BAT54CWT1G — Schottky Diodes

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