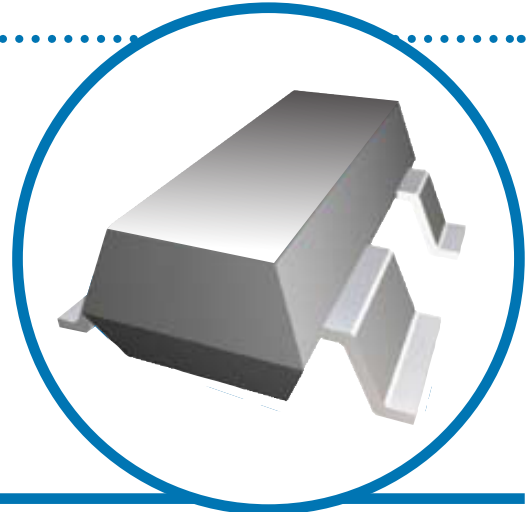


SOT143

4-PIN SMT Package

SOT143 Series

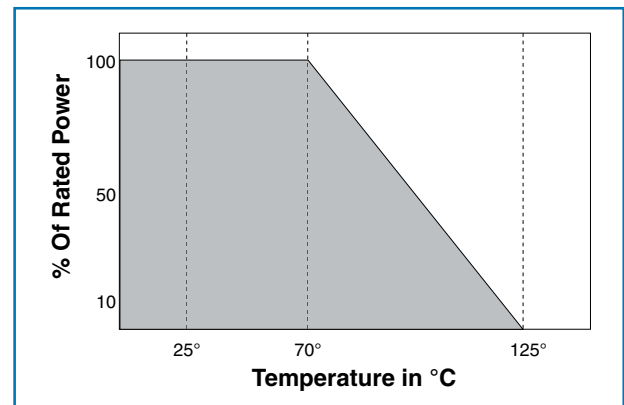
- Ratio tolerances to $\pm 0.05\%$
- Small, industry standard package
- Standard and custom circuits available
- Standard Sn/Pb and Pb-free terminations available



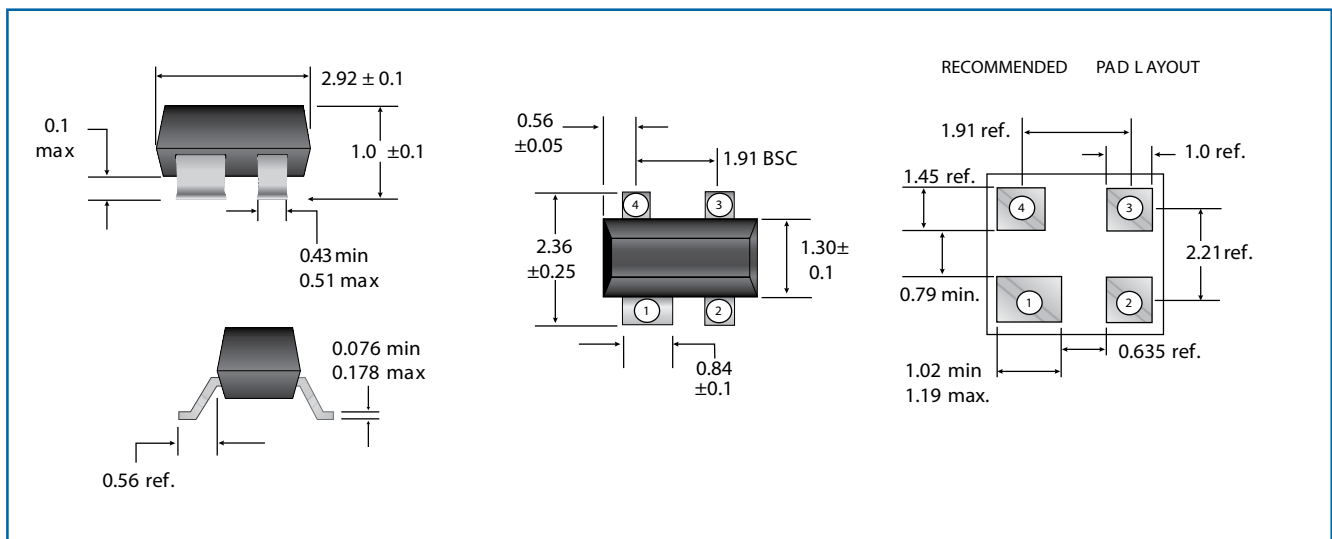
Specifications

Characteristic	Value
Package Power Dissipation	0.25 Watts @ 70°C
Element Power Dissipation	0.1 Watts @ 70°C
Maximum Voltage Rating	100 Volts
Operating Temperature Range	-55°C to +125°C
Temperature Coefficient Absolute	To $\pm 25\text{ppm}/^\circ\text{C}$
Temperature Coefficient Tracking	$\pm 2\text{ppm}/^\circ\text{C}$

Power Derating Curve



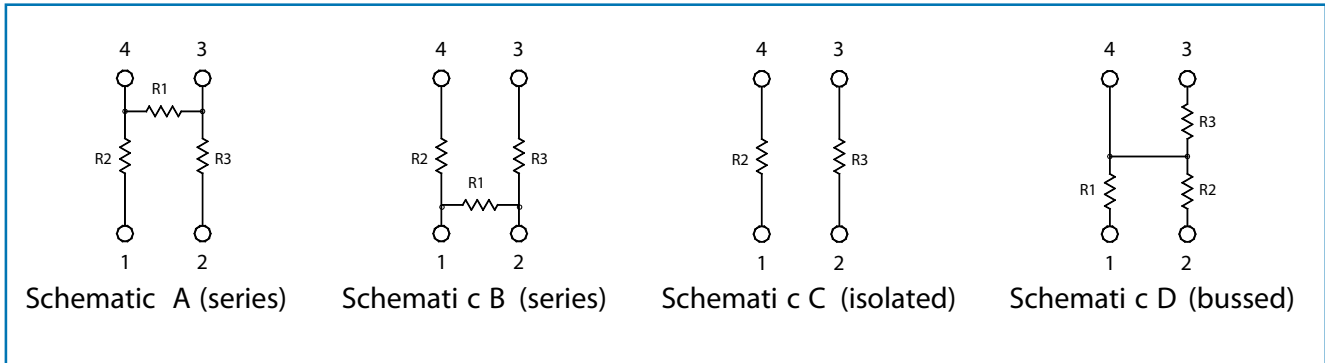
Physical Data (mm)



General Note

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Schematics



Schematic / Circuit Detail

Circuit Details for Schematic A			
Schematic/Circuit Code	R1 (Ω)	R2 (Ω)	R3 (Ω)
A001	500.0	50.0K	50.0K
A002	10.0K	10.0K	10.0K
A003	900.0	100.0	9.0K
A004	500.0	48.0K	48.0K
A005	200.0	40.0K	40.0K

Circuit Details for Schematic B			
Schematic/Circuit Code	R1 (Ω)	R2 (Ω)	R3 (Ω)
B001	10.0K	10.0K	10.0K
B002	900.0	100.0	9.0K
B003	1.0K	10.0K	10.0K

Circuit Details for Schematic C			
Schematic/Circuit Code	R1 (Ω)	R2 (Ω)	R3 (Ω)
C001	N/A	10.0K	10.0K
C002	N/A	1.0K	1.0K
C003	N/A	9.0K	1.0K
C004	N/A	750.0	750.0
C005	N/A	100K	100K
C006	N/A	33.0K	330.0
C007	N/A	2.0K	2.0K
C008	N/A	10.0K	2.0K
C009	N/A	10.0K	200.0
C010	N/A	2.1K	10.0K
C011	N/A	2.15K	10K
C012	N/A	10.0K	100K

Circuit Details for Schematic D			
Schematic/Circuit Code	R1 (Ω)	R2 (Ω)	R3 (Ω)
D001	121.0	1.33K	1.0K
D002	2.0K	1.0K	2.0K
D003	50.0K	5.0K	5.0K
D004	5.4K	5.4K	27.5K
D005	40.0K	40.0K	40.0K
D006	10.0K	10.0K	20.0K
D007	20.0K	20.0K	20.0K

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Environmental Data

Environmental Test To MIL-PRF-83401	Characteristic H Limit	Maximum	Typical Performance
Thermal Shock	±0.5%	±0.1%	±0.02%
Power Conditioning	±0.5%	±0.1%	±0.03%
Short Time Overload	±0.1%	±0.1%	±0.02%
High Temperature Exposure	±0.2%	±0.1%	±0.05%
Low Temperature Operation	±0.1%	±0.1%	±0.03%
Moisture Resistance	±0.4%	±0.1%	±0.03%
Life	±0.5%	±0.1%	±0.05%
Resistance to Solder Heat	±0.1%	±0.05%	±0.02%
Terminal Strength	±0.25%	±0.1%	±0.02%

Ordering Procedure

Example: SOT143 with an absolute TCR of 25ppm/°C with schematic A, circuit code 002 in a 1% absolute tolerance and 0.1% ratio tolerance tape packed on a reel –

SOT143 - A002 - FB

Type _____

Absolute TCR

	25ppm/°C	01	100ppm/°C
02	50ppm/°C	00	250ppm/°C

Schematic & Circuit Code _____

Absolute Tolerance (use IEC62 code) _____

B	0.1%	D	0.5%	G	2%	K	10%
C	0.25%	F	1%	J	5%		

Ratio Tolerance (use IEC62 code) _____

A	0.05%	C	0.25%	F	1%
B	0.1%	D	0.5%	G	2%

Packing

	Tape	1000/reel	Standard
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Note: This code applies to standard Pb-free termination finish.

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