

ACZRUC16VB-HF

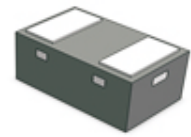
High-Reliability and High-Performance

Voltage 16 Volts

Power 150 mWatts

RoHS Device

Halogen Free

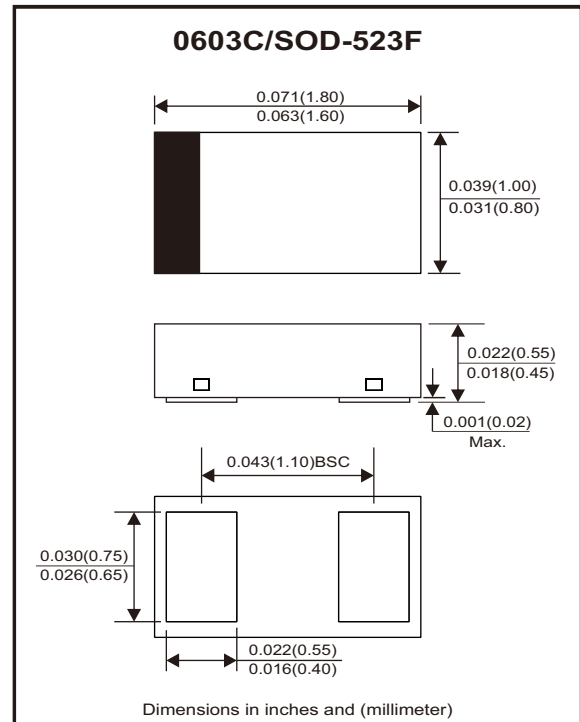


Features

- 150mW Power Dissipation.
- Designed for mounting on small surface.
- Extremely thin/leadless package.
- Constant voltage control.
- AEC-Q101 Qualified.

Mechanical data

- Case: 0603C/SOD-523F Standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Mounting position: Any.
- Weight: 0.003 grams (approx.).



Circuit Diagram



Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum forward voltage drop at IF = 10 mA	VF	0.9	V
Maximum power dissipation at 25°C	PD	150	mW
Forward current, surge peak 8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	IFSM	2.0	A
Operating junction and storage temperature range	TJ	-55 to +125	°C

Electrical Characteristics (at TA=25°C unless otherwise noted)

Part Number	Marking Code	Zener Voltage			Operating Resistance		Rising Operating Resistance		Reverse Current	
		Vz(V)			ZzT(Ohm)		Zzk(Ohm)		IR(μA)	
		Min	Max	Iz(mA)	Max	Iz(mA)	Max	Iz(mA)	Max	Vr(V)
ACZRUC16VB-HF	UQ	15.60	16.40	5	36	5	600	0.25	0.1	12

Rating and Characteristic Curves (ACZRUC16VB-HF)

Fig.1 - Zener Voltage Characteristics

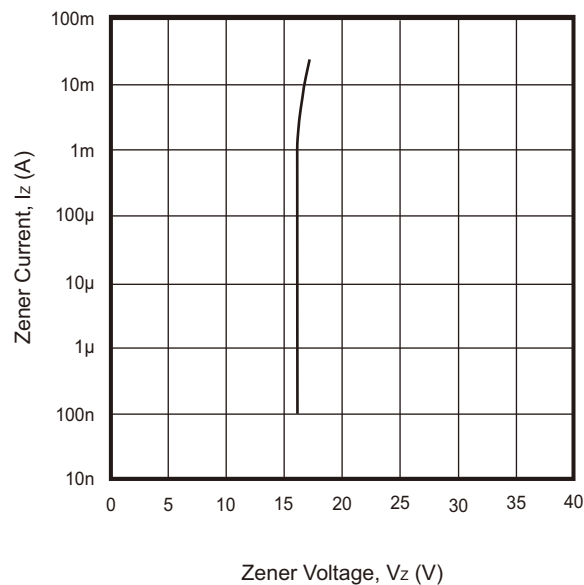


Fig.2 - Derating Curve

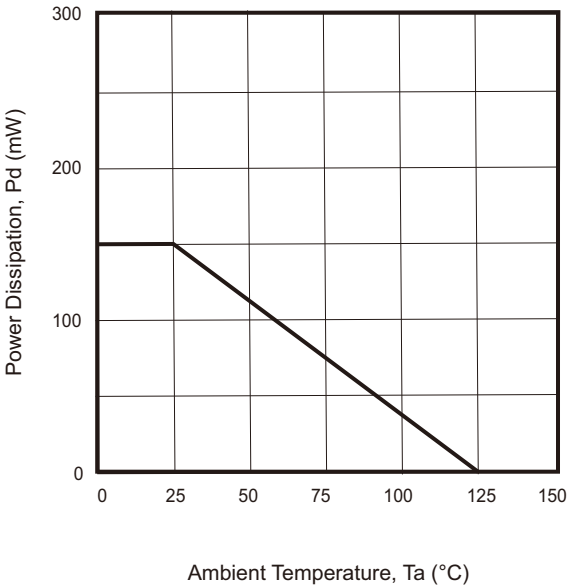
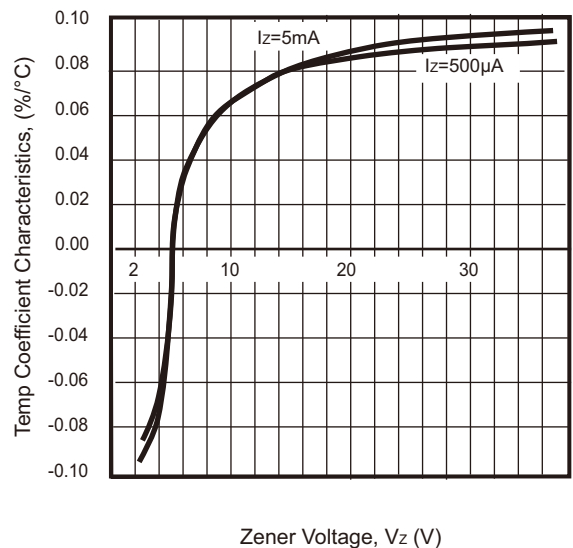
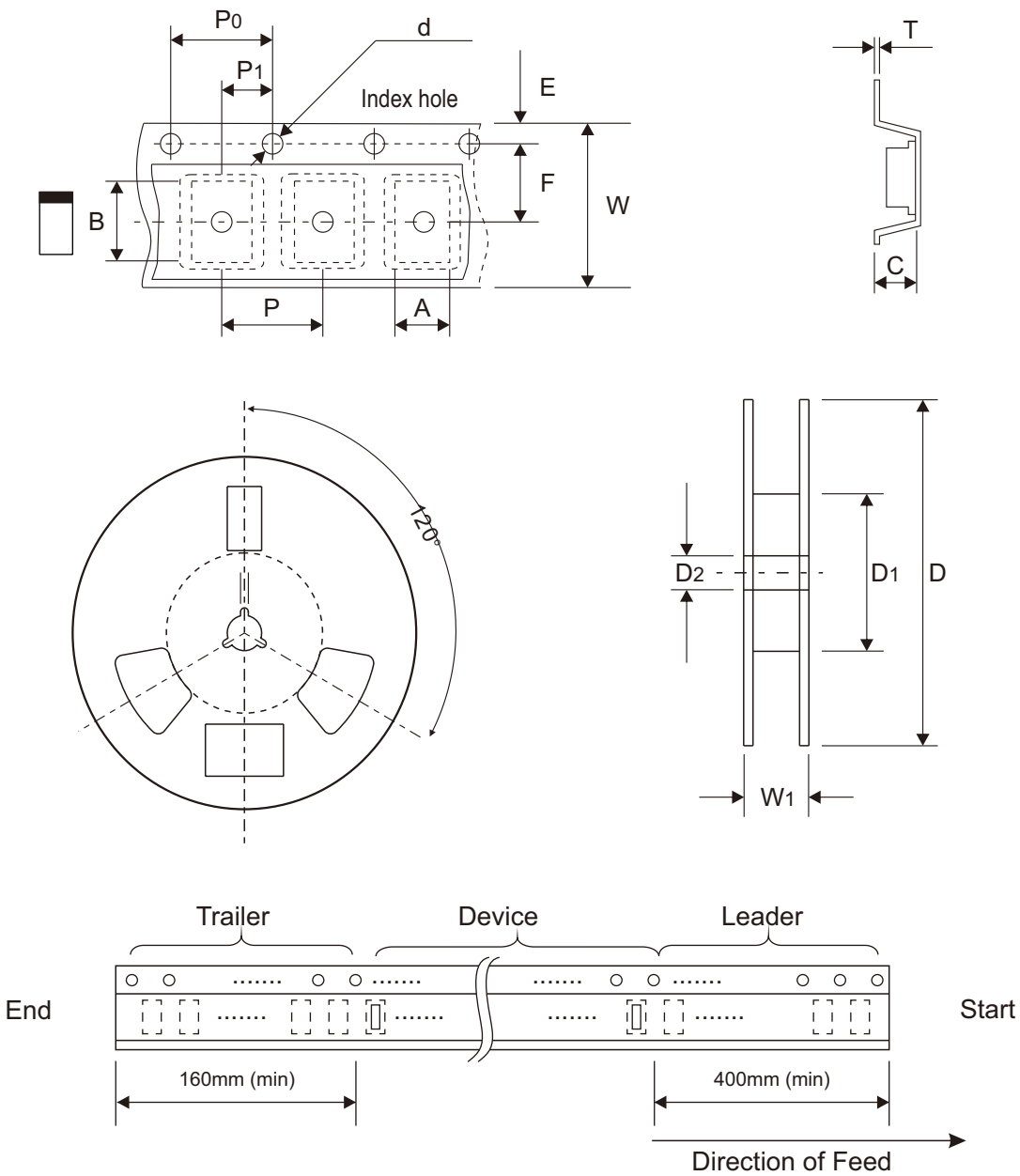


Fig.3 - Zener Voltage-Temp Coefficient Characteristics



Reel Taping Specification



0603C (SOD-523F)	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.05 ± 0.05	1.96 ± 0.05	0.57 ± 0.05	1.50 + 0.10 - 0.00	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.041 ± 0.002	0.077 ± 0.002	0.022 ± 0.002	0.059 + 0.004 - 0.000	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

0603C (SOD-523F)	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	0.20 ± 0.03	8.00 ± 0.20	12.00 + 0.50 - 0.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	0.008 ± 0.001	0.315 ± 0.008	0.472 + 0.020 - 0.000

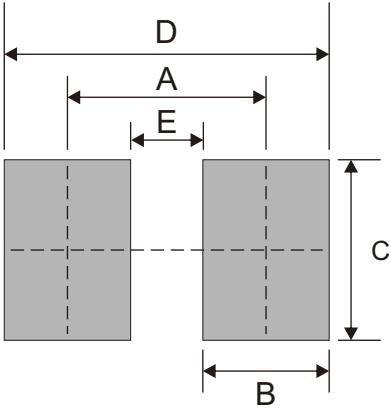
Marking Code

Part Number	Marking Code
ACZRUC16VB-HF	UQ



Suggested PAD Layout

SIZE	0603C/SOD-523F	
	(mm)	(inch)
A	1.10	0.043
B	0.70	0.028
C	1.00	0.039
D	1.80	0.071
E	0.40	0.016



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
0603C/SOD-523F	4,000	7