

VARISTORS

Diffused Junction Silicon Types and Silicon Carbide Types



DIFFUSED JUNCTION SILICON VARISTORS

STETRON diffused junction silicon varistors are special diode assemblies designed for use in low voltage circuits.

TYPICAL APPLICATIONS ARE AS FOLLOWS:

- click absorption in telephone handsets
- amplitude stabilization of touch-tone telephone oscillation
- secondary arrestors in repeater amplifiers
- temperature compensation of transistor and voltage regulator diode circuits
- overcurrent protection in measuring instruments
- voltage limiters and dividers
- wave squarers for threshold limiters, level shifters, etc.

ELECTRICAL CHARACTERISTICS:

Characteristic values and maximum ratings for STETRON DR series of varistors are defined at an ambient temperature of 25°C, as shown in the V/I characteristics curves.

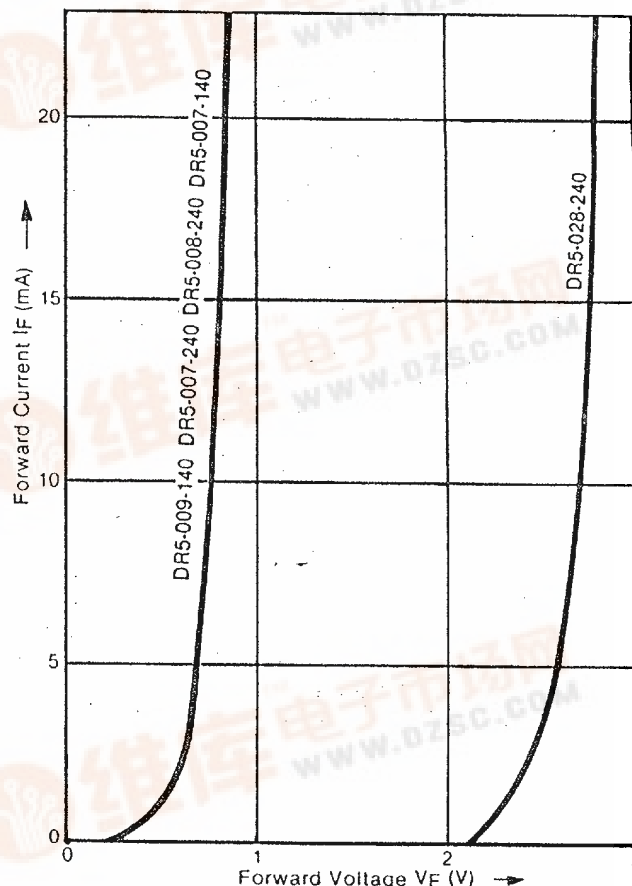
Maximum power and current ratings are also given at 70°C in the accompanying table. Operating temperature range is -55°C to 150°C.

ELECTRICAL CHARACTERISTICS

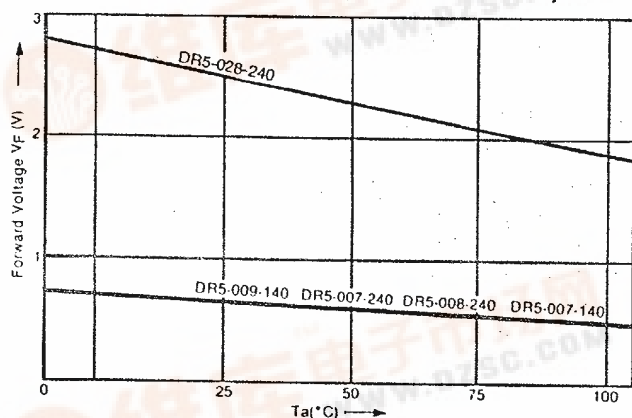
PART NUMBER	CURRENT (mA)	VOLTAGE (V) Min. Max.	NOMINAL	POWER (mW)	CURRENT (mA)	ASSEMBLY OF CHIPS
DR5-009-140	0.01 100	0.20 -- 0.90	-2.1	500	500	
DR5-007-240	0.1 10	0.43 -- 0.72	-2.1	500	500	
DR5-008-240	0.1 10	0.43 -- 0.75	-2.1	500	500	
DR5-007-140	0.1 100	0.43 0.74 0.80	-2.1	500	500	
DR5-028-240	1 10 70	2.05 2.50 2.85 2.55 3.00 3.35	-8.5 -- ---	500	125	

VOLTAGE CURRENT CHARACTERISTICS

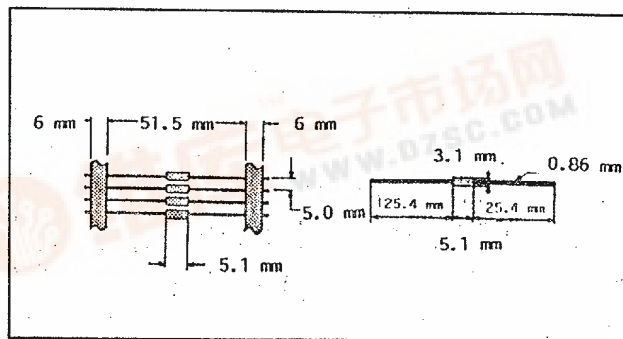
(Ta = 25°C)



Ta-VF CHARACTERISTICS (If = 3mA CONST)



DIMENSIONS



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THE INFORMATION CONTAINED IN THIS LITERATURE HAS BEEN CAREFULLY REVIEWED AND IS BELIEVED TO BE ACCURATE, HOWEVER, DUE TO THE POSSIBILITY OF UNSEEN INACCURACIES NO RESPONSIBILITY IS ASSUMED.

VT60D/SICVAR 02/94
side 1 of 2

silicon carbide varistor

SILICON CARBIDE

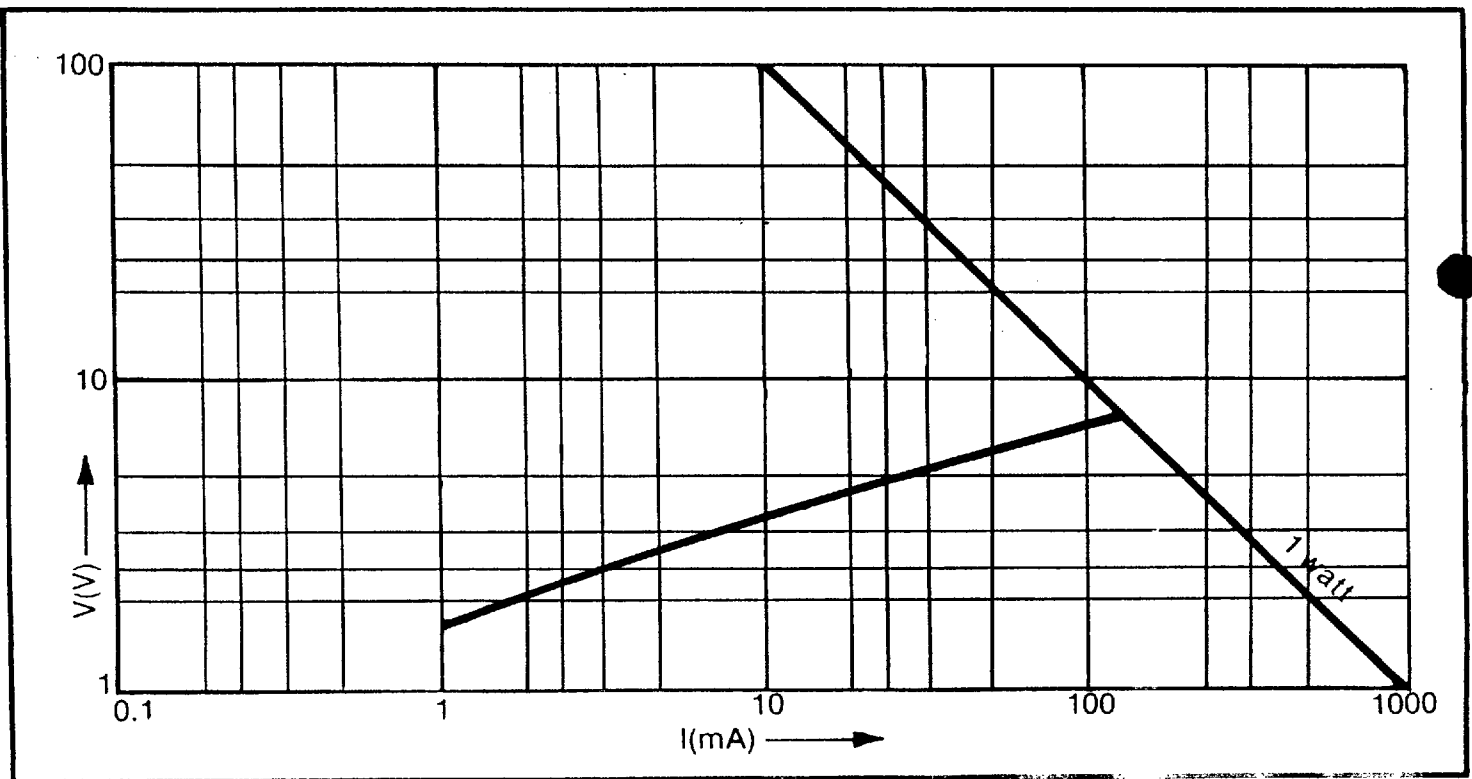
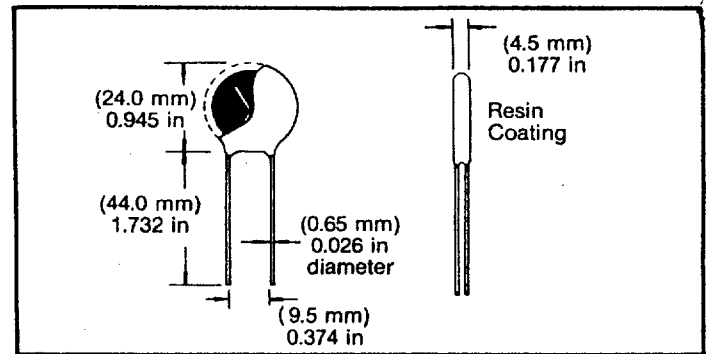
TYPICAL APPLICATIONS: STETRON SDL series has been designed for use in telephone sets in volume equalization circuits. Maximum power rating is 1 watt. Other electrical characteristics are shown in the accompanying tables and charts.

ELECTRICAL CHARACTERISTICS

PART NUMBER	CURRENT-VOLTAGE CHARACTERISTICS	MAX. PERMISSIBLE POWER
SDL-080-131	1mA: 1.6V min. 100mA: 7.2 - 8.7V	1.0
SDL-098-231	1mA: 1.6V min. 10mA: 8.9 -10.7V	1.0

Other types available upon request.

VOLTAGE CURRENT CHARACTERISTICS



Stetron International Inc.