

# Preliminary Version High Power Shunt Resistors (SOT-227)

The CS227 is a metal foil, SOT227 resistor designed to give a high current capability. The metal foil element is situated on an insulated heatsink composed of plated copper. This assembly is then mounted into a durable plastic housing and sealed with high temperature epoxy. This product features: Four terminals for precise circuits, vibration proof, good insulation, compact size and easy bolt mounting.



## GENERAL SPECIFICATIONS

Model	Resistance Range[Ω]	Power Rating[W]	TCR[ppm/°C] (20°C - 105°C)	Tolerance(%)	Max. Current
CS227M-1	1mΩ, 2mΩ, 3mΩ, 4mΩ, 5mΩ	25W	Max. ±80	F [±1] G [±2] J [±5]	158A
CS227A-1		30W			173A
CS227M-2	2mΩ+2mΩ, 3mΩ+3mΩ	10W+10W			70AX2
CS227A-2	2mΩ+2mΩ, 3mΩ+3mΩ	13W+13W			80AX2

## CHARACTERISTICS

Temperature Range	-55°C ~ +105°C
Dielectric Withstanding Voltage	CS227A-1: 1000VAC, CS227A-2: 2000VAC
Internal Heat Resistance	R < 2.5KW
Inductance	5nH for R < 10mΩ
Load Life	Deviation < 2% after 2000hours

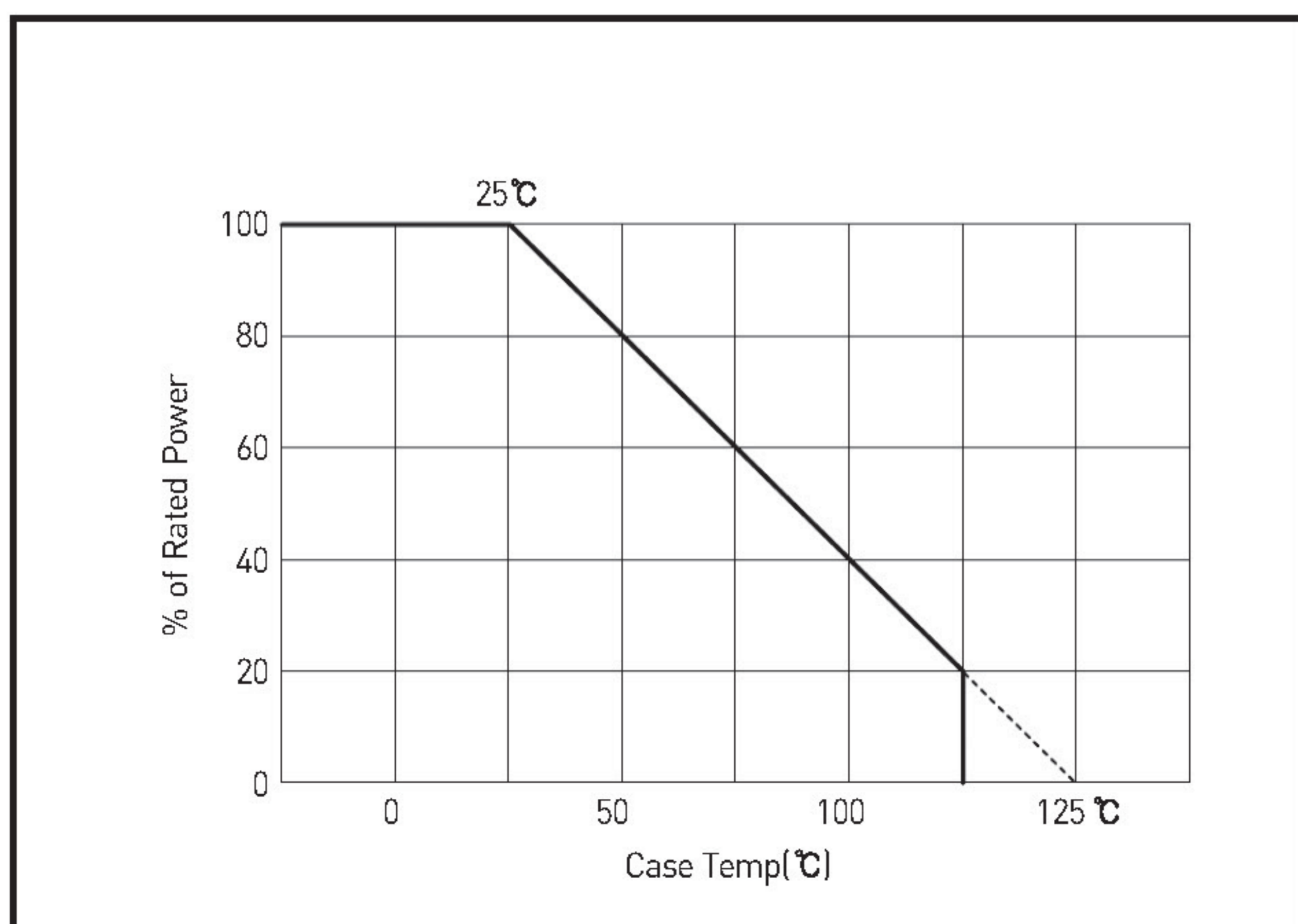
## DIMENSIONS [mm] AND STRUCTURE

**Schematics**

CS 227A-1  
CS 227M-1
CS 227A-2  
CS 227M-2

Symbol	A	B	C	D	E	F	G	H
(mm)	38±0.5	25±0.5	10±0.5	30±0.2	15±0.5	13±0.5	2 - 4.2	4 - M4.0

## DERATING CURVE



## ORDERING PROCEDURE EXAMPLE

