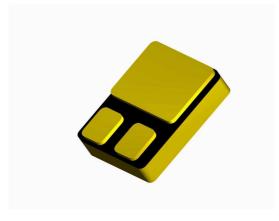




PACKAGE ILLUSTRATION





FEATURES:

- SCREENING OPTIONS AVAILABLE
- HIGH SURGE CURRENT RATING
- HERMETIC CERAMIC PACKAGE
- STANDARD TOLERANCE VALUES +/-5%

SMD05 PIN OUTS

PIN 1 – Anode PIN 2 – Cathode PIN 3 – Anode

ABSOLUTE MAXIMUM RATINGS ($T_{amb} = 25\%$ unless otherwise stated)

P _{TOT}	Power Dissipation	8W
T _{OP}	Maximum Operating Ambient Temperature	-55℃ to 175 ℃
T _{STG}	Storage Temperature Range	-65℃ to 175℃
I _{SUR}	Maximum Surge Current	28A
I _{ZM}	Maximum Continuous Current	2A

ELECTRICAL CHARACTERISTICS (T_{amb} = 25°C unless otherwise stated)

Parameter		Test Conditions	Min.	Тур.	Max.	Unit
Vz	Nominal Zener Voltage	$I_{ZT} = 320mA$		4.0		V
ΔV_Z	Voltage Regulation	(Note 1)			0.80	V
Z_Z	Maximum Zener Impedance	Z _Z @ I _{ZT} (320mA)			11	Ω
Z_{ZK}	Maximum Zener Impedance	$Z_{ZK} @ I_{ZK} = 1mA$			250	Ω
I _R	Reverse Leakage Current	I_R at $V_R = 1V$			175	μA
αV_Z	Maximum Temp Coefficient	αV _Z @ I _{ZT (25°to 125°C)}			0.16	%/℃

NOTE 1: Maximum voltage change ΔV_Z between 10% of I_{ZM} and 50% of I_{ZM}

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

Semelab plc. Telephone +44(0)1455 556565. Fax +44(0)1455 552612.

E-mail: sales@semelab.co.uk Website: http://www.semelab.co.uk



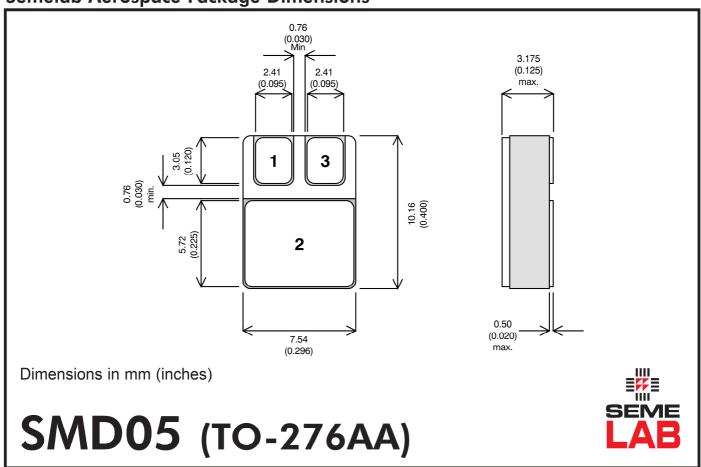


Thermal Data (T_{case} = 25°C unless otherwise stated)

	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
R _{θj-case}	Thermal Resistance Junction-Case				2.0	°C/W

Mechanical Outline (underside view)

Semelab Aerospace Package Dimensions



Semelab Plc Tel +44 (0) 1455 556565 Aerospace Package Drawings Version 1.01 August 2002 www.semelab.com

Dimensions shown are to JEDEC specifications. Some products may be specified with marginally different dimensions. See individual data sheets for detailed spec.

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

Semelab plc. Telephone +44(0)1455 556565. Fax +44(0)1455 552612.

E-mail: sales@semelab.co.uk Website: http://www.semelab.co.uk