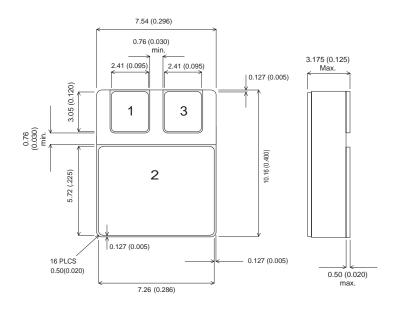




MECHANICAL DATA

Dimensions in mm



SCHOTTKY BARRIER **DIODE IN CERAMIC** SURFACE MOUNT PACKAGE FOR HI-REL APPLICATIONS

FEATURES

- HERMETIC CERAMIC PACKAGE
- SCREENING OPTIONS AVAILABLE
- **OUTPUT CURRENT 15A**
- LOW V_F
- LOW LEAKAGE

SMD05 (TO-276AA) CERAMIC PACKAGE



ABSOLUTE MAXIMUM RATINGS (T_{case} = 25°C unless otherwise stated)

V_{RRM}	Peak Repetitive Reverse Voltage	45V
V_{RSM}	Peak Non-Repetitive Reverse Voltage	45V
V_R	Continuous Reverse Voltage	45V
I _{F(AV)}	Maximum Average Forward Current	30A
I_{FSM}	Peak Non-Repetitive Surge Current at 50Hz (per leg)	245A
T_{STG}	Storage Temperature Range	-55°C to 150°C
T_J	Maximum Operating Junction Temperature	150°C

Semelab PIc 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.

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Website: http://www.semelab.co.uk



SB15-45SSMD05

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

Parameter		Test Conditions		Min.	Тур.	Max.	Unit
V _{FM}	Forward Voltage*	I _F = 15A	$T_J = 25$ °C			0.6	V
		I _F = 15A	T _J = 125°C			0.55	
I _{RM}	Reverse Current*	V _R = 45V	T _J = 25°C			2	mA
		V _R = 45V	T _J = 125°C			80	
C _d	Junction Capacitance	V _R = 5V	f= 1MHz		900		pF

^{*}Pulse test tp=300μs δ≤2%

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