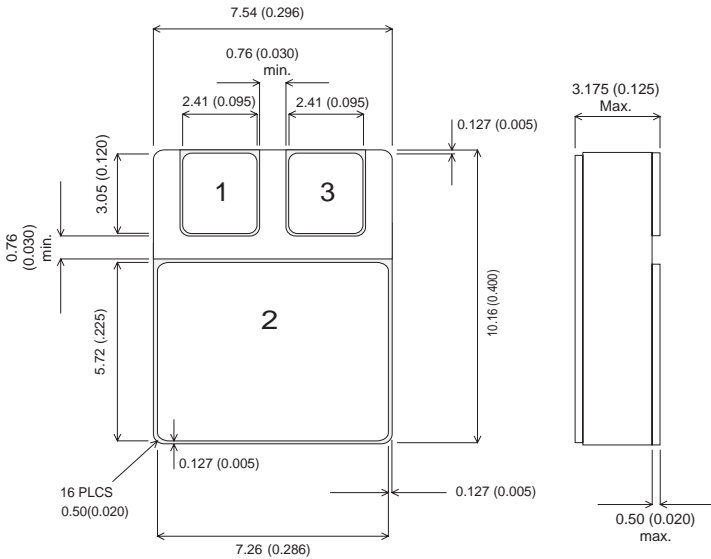


MECHANICAL DATA

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 ($T_{case} = 25^\circ C$ 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 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.

ELECTRICAL CHARACTERISTICS ($T_{CASE} = 25^{\circ}C$ unless otherwise stated)

Parameter		Test Conditions		Min.	Typ.	Max.	Unit
V_{FM}	Forward Voltage*	$I_F = 15A$	$T_J = 25^{\circ}C$			0.6	V
		$I_F = 15A$	$T_J = 125^{\circ}C$			0.55	
I_{RM}	Reverse Current*	$V_R = 45V$	$T_J = 25^{\circ}C$			2	mA
		$V_R = 45V$	$T_J = 125^{\circ}C$			80	
C_d	Junction Capacitance	$V_R = 5V$	$f = 1MHz$		900		pF

*Pulse test $t_p = 300\mu s$ $\delta \leq 2\%$