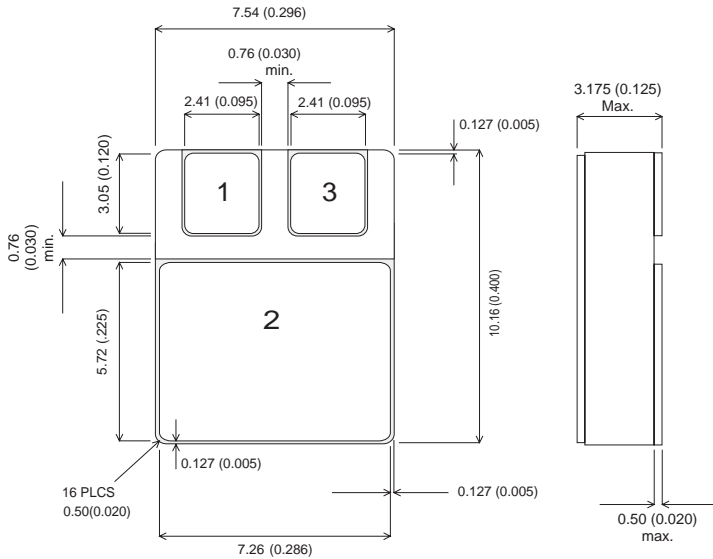


**MECHANICAL DATA**

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  $t_p = 300\mu s$   $\delta \leq 2\%$