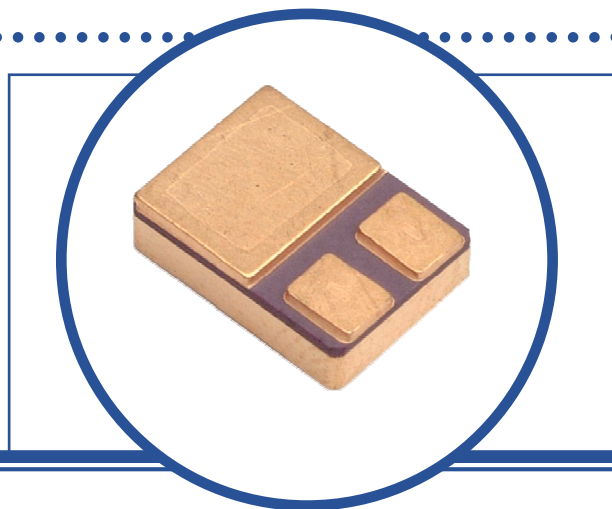


SB16-45SMD05

- Hermetic SMD0.5 Metal package.
- Output Current 16A
- Low V_F
- Low Leakage
- Screening Options Available



ABSOLUTE MAXIMUM RATINGS ($T_C = 25^\circ\text{C}$ 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	16A
I_{FSM}	Peak Non-Repetitive Surge Current 50Hz (per leg)	245A
T_J	Junction Temperature Range	-55 to +150°C
T_{stg}	Storage Temperature Range	-55 to +150°C

Semelab Limited 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.



SCHOTTKY BARRIER DIODE

SB16-45SMD05

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

Symbols	Parameters	Test Conditions	Min.	Typ	Max.	Units
$V_{FM}^{(1)}$	Forward Voltage	$I_F = 15\text{A}$	$T_J = 25^\circ\text{C}$		0.8	V
			$T_J = 125^\circ\text{C}$		0.67	
$I_{RM}^{(1)}$	Reverse Current	$V_R = 45\text{V}$	$T_J = 25^\circ\text{C}$		2	mA
			$T_J = 125^\circ\text{C}$		80	

DYNAMIC CHARACTERISTICS ($T_C = 25^\circ\text{C}$ unless otherwise stated)

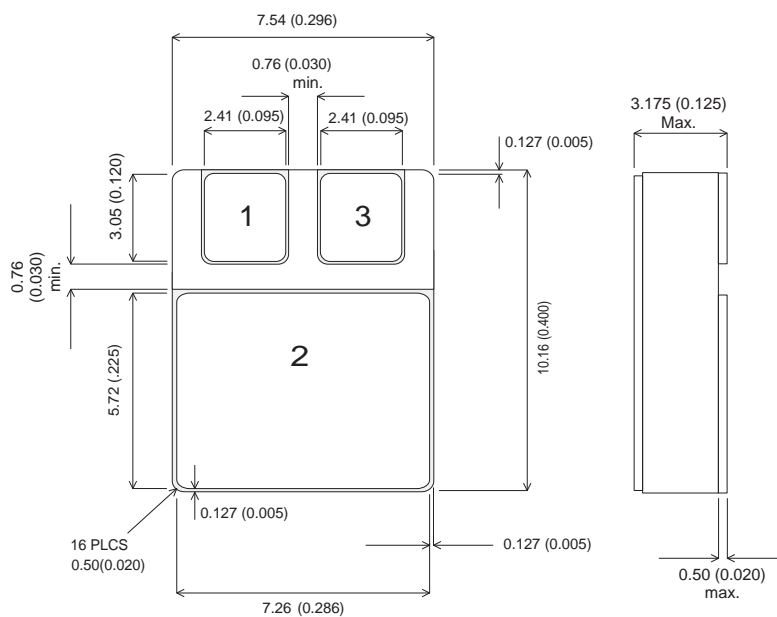
C_j	Junction Capacitance	$V_R = 5\text{V}$	$F = 1\text{MHz}$		900	pF
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Notes

(1) Pulse Width $\leq 300\mu\text{s}$, $\delta \leq 2\%$

MECHANICAL DATA

Dimensions in mm (inches)



(TO-276AA)

Underside View

Pad 1 – Anode Fmitter Pad 2 – Cathode Pad 3 -Anode

