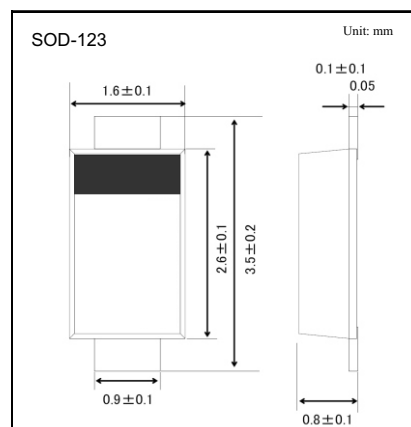


# SMD16

## Features

- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- wheeling, and polarity protection applications



## Absolute Maximum Ratings $T_a = 25$

Parameter	Symbol	Rating	Unit
Non-repetitive peak reverse voltage	$V_{RM}$	60	V
Peak repetitive reverse voltage	$V_{RRM}$	60	V
Working peak reverse voltage	$V_{RWM}$		
DC blocking voltage	$V_R$	42	V
RMS reverse voltage	$V_{R(RMS)}$		
Average rectified output current	$I_O$	1.0	A
Non-repetitive peak forward surge current @ $t = 1.0s$	$I_{FSM}$	40	A
Typical Junction Capacitance	$C_j$	110	pF
Typical thermal resistance, junction to ambient air	$R_{JA}$	60	/W
Operating and storage temperature range	$T_i, T_{stg}$	-65 to +150	

## Electrical Characteristics $T_a = 25$

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Forward voltage	$V_F$	$I_F = 1000mA$			0.65	V
Peak reverse current	$I_R$	$V_R = 60V$			50	$\mu A$