

# Fast Recovery Rectifier

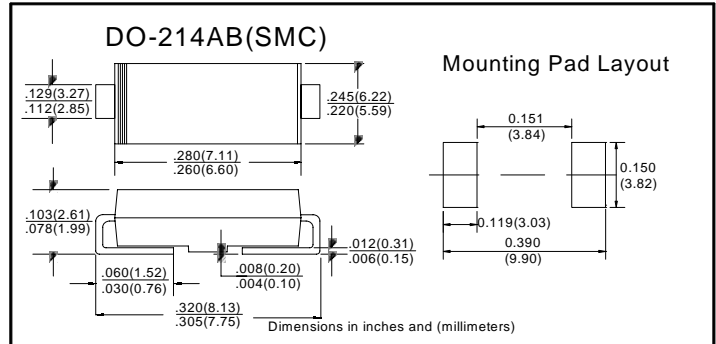
## ■ Features

- $I_o$  3.0A
- $V_{RRM}$  50V-1000V
- High surge current capability
- Cases: Molded plastic

## ■ Applications

- Rectifier

## ■ Outline Dimensions and Mark



## ■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	RS3						
				A	B	D	G	J	K	M
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		50	100	200	400	600	800	1000
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, $T_L = 90^\circ C$	3.0						
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz Half-sine wave , 1 cycle , $T_a = 25^\circ C$	100						
Junction Temperature	$T_J$	$^\circ C$		-55~+150						
Storage Temperature	$T_{STG}$	$^\circ C$		-55 ~ +150						

## ■ Electrical Characteristics ( $T_a = 25^\circ C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	RS3						
				A	B	D	G	J	K	M
Peak Forward Voltage	$V_F$	V	$I_F = 3.0A$	1.3						
Maximum reverse recovery time	$t_{rr}$	ns	$I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A$	150			250		500	
Peak Reverse Current	$I_{RRM1}$	$\mu A$	$V_{RM} = V_{RRM}$	$T_a = 25^\circ C$						
	$I_{RRM2}$			$T_a = 100^\circ C$						
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ C/W$	Between junction and ambient				20 <sup>1)</sup>			
	$R_{\theta J-L}$		Between junction and terminal				10 <sup>1)</sup>			

### Notes:

- 1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.4" x 0.4" (10 mm x 10mm)copper pad areas



# RATINGS AND CHARACTERISTIC CURVES

