



### Features

- Average Forward Current:  $I_{F(AV)}=3A$
- Polarity: Color band denotes cathode



SMA  
(DO-214AC)



### Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SSA36	SMA (DO-214AC)	S36U7	2000

### Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Test Conditions	SSA36	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		60	V
Maximum RMS Voltage	$V_{RMS}$		42	V
Average Forward Current	$I_{F(AV)}$	60Hz Half-sine wave, Resistance load, FIG.1	3.0	A
Surge(Non-repetitive)Forward Current	$I_{FSM}$	60Hz Half-sine wave, 1 cycle, Ta=25°C	70	A
Junction Temperature	$T_J$		-55~+150	°C
Storage Temperature	$T_{STG}$		-55 ~ +150	°C

### Electrical Characteristics (Ta=25°C unless otherwise specified)

Item	Symbol	Test Condition	SSA36	Unit
Peak Forward Voltage	$V_F$	$I_F=3.0A$	0.70	V
Peak Reverse Current	$I_{RRM1}$	$V_{RM}=V_{RRM}$	$T_a=25^\circ C$	0.5
	$I_{RRM2}$		$T_a=100^\circ C$	10
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient	75	°C/W
	$R_{\theta J-L}$	Between junction and terminal	17	

### Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



## Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

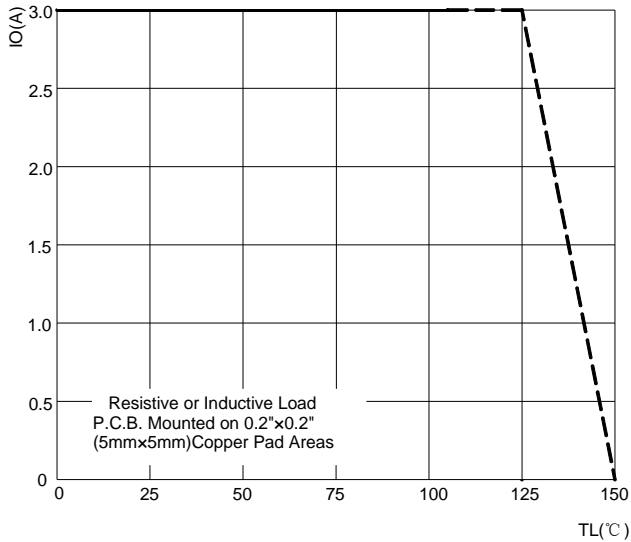


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

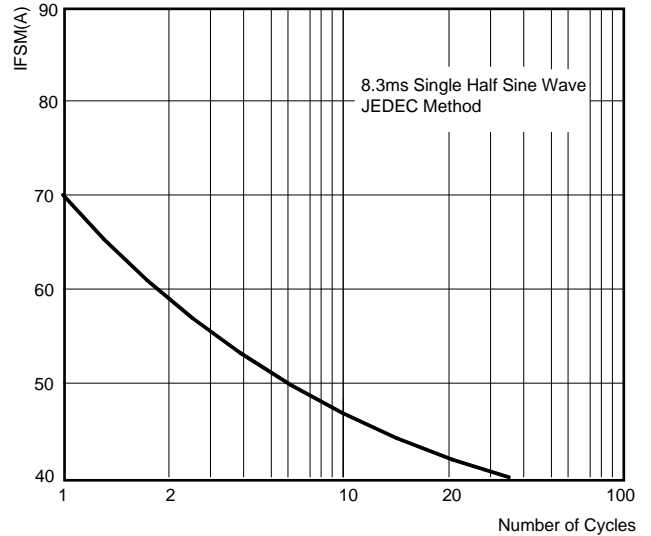


FIG.3: TYPICAL FORWARD CHARACTERISTICS

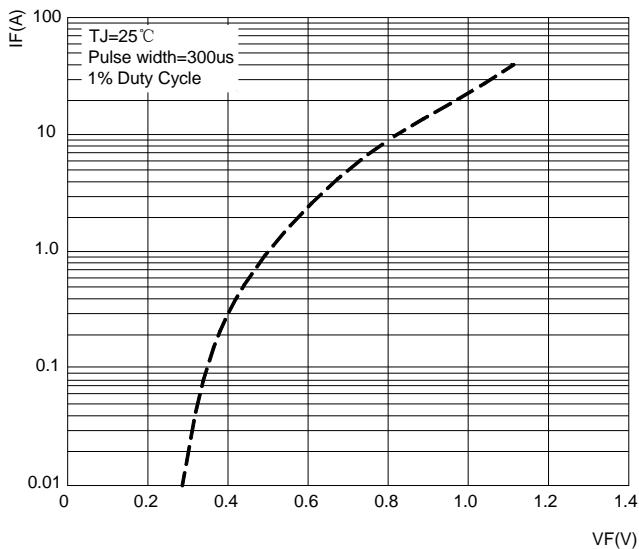
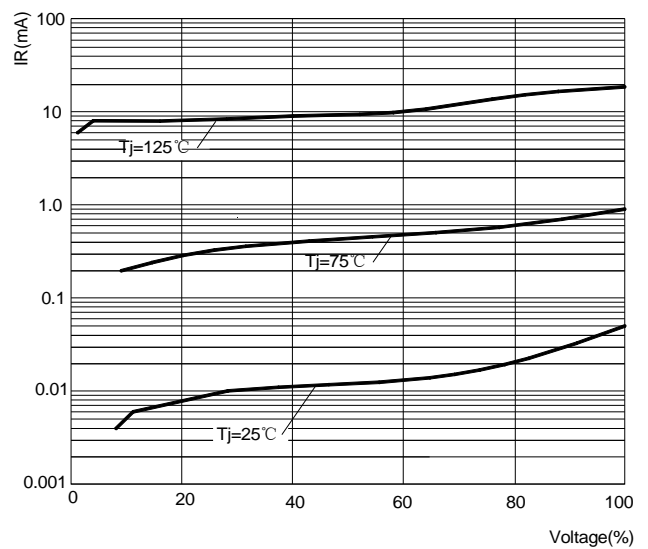
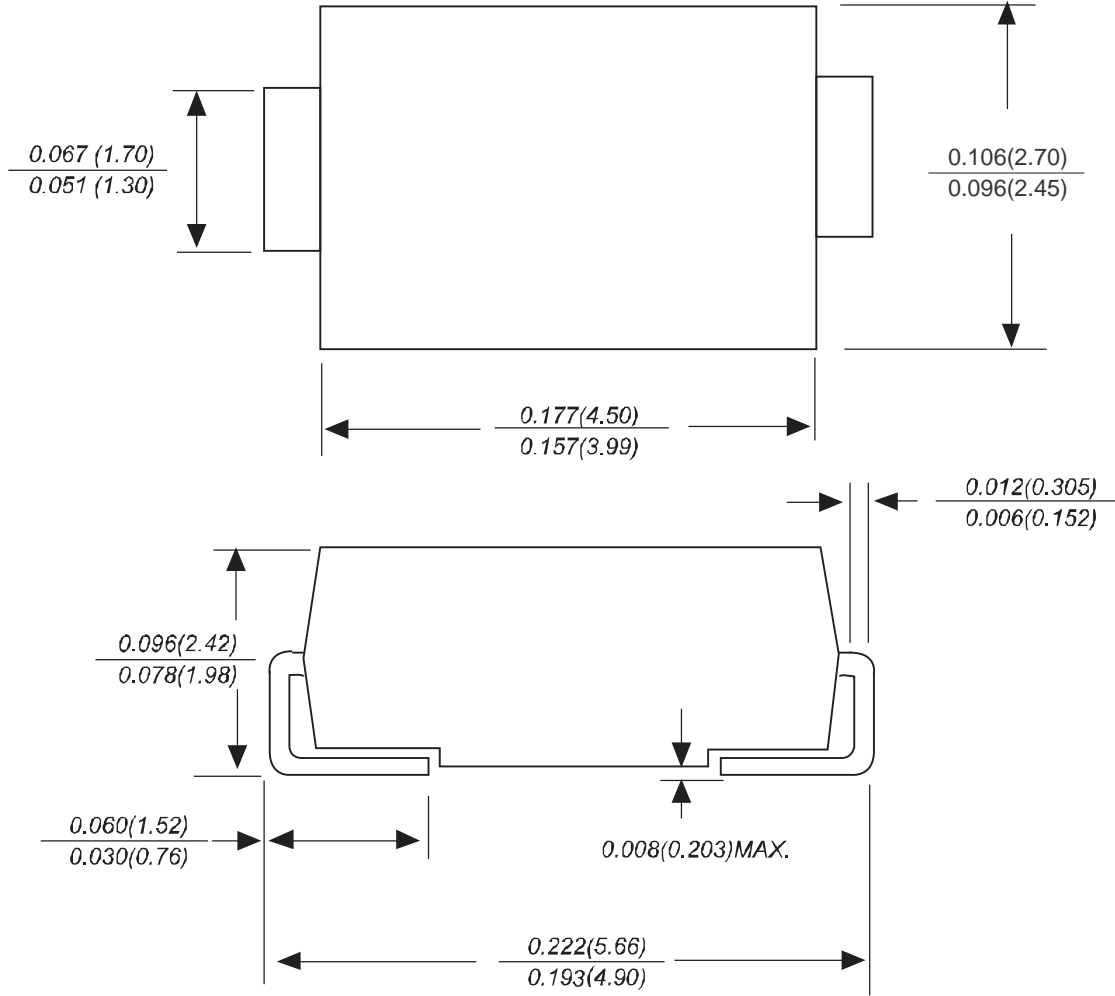


FIG.4: TYPICAL REVERSE CHARACTERISTICS





**Package Outline Dimensions**  
**SMA(DO-214AC)**



*Dimensions in inches and (millimeters)*



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