

Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)	
SK36SMB-AQ	SMB (DO-214AA)	SS36	3000	



SMB (DO-214AA)



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

Item	Symbol	Test Conditions	Limit	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	А
Surge(Non-repetitive)Forward Current	I _{FSM}	60Hz Half-sine wave, 1 cycle, Ta=25°C	70	А
Junction Temperature	TJ		-50 ~ +150	°C
Storage Temperature	T _{STG}		-50 ~ +150	°C

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

Item	Symbol	Test Condition		Limit	Unit
Peak Forward Voltage	V_{F}	I _F =3.0A		0.70	V
Peak Reverse Current	I _{RRM1}	$V_{RM} = V_{RRM}$	Ta=25°C	0.5	- mA
	I _{RRM2}		Ta=100°C	10	
Thermal Resistance(Typical)	$R_{\theta J\text{-}A}$	Between junction and ambient		55	°C/ W
	$R_{\theta J\text{-}L}$	Between junction and terminal		20	

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-TYPICAL FORWARD CURRENT DERATING CURVE

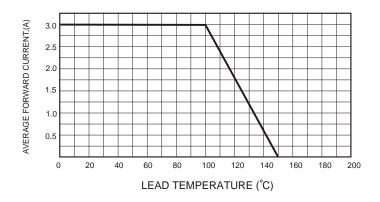
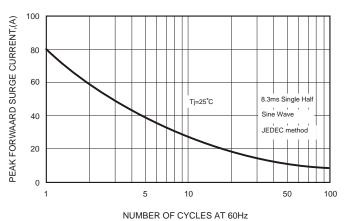


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



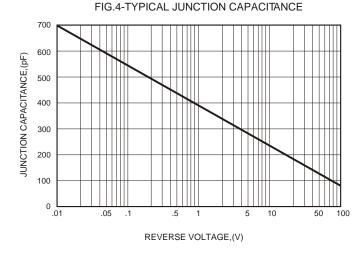


FIG.2-TYPICAL FORWARD

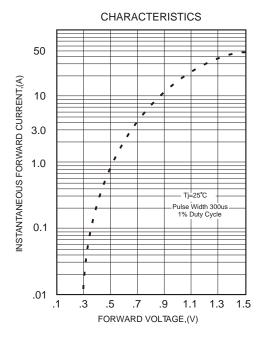
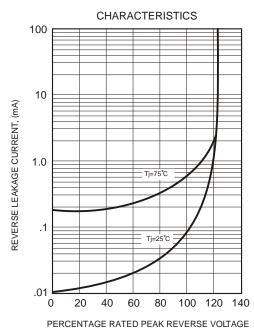
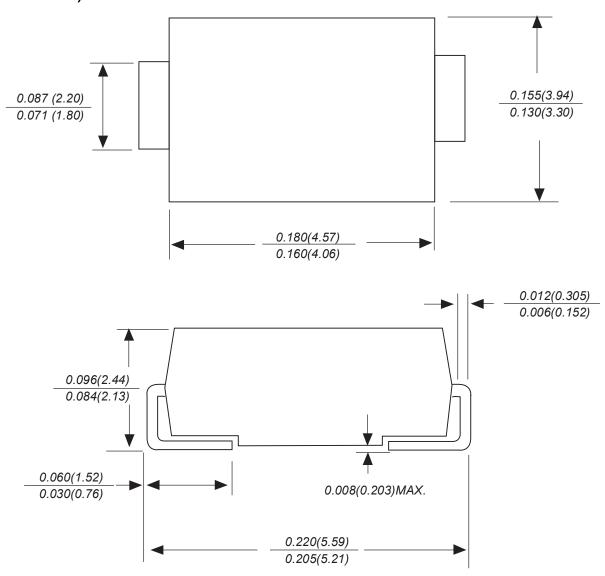


FIG.5 - TYPICAL REVERSE





Package Outline Dimensions SMB(DO-214AA)



Dimensions in inches and (millimeters)



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