

Voltage 20V ~ 100V , 3.0 Amper Surface Mount Schottky Barrier Rectifiers

FEATURES

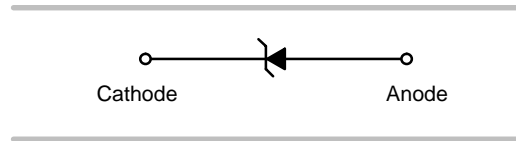
- * For surface mount applications
- * Epitaxial construction
- * Very low forward voltage drop
- * For use in low voltage, high frequency inverter, free wheeling

DO- 214AC
SMA



MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V- 0 rate flame retardant
- * Polarity: Color band denotes cathode end
- * Weight: 0.064 grams



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SS3						
				2A	3A	4A	5A	6A	9A	10A
Repetitive Peak Reverse Voltage	V _{RRM}	V		20	30	40	50	60	90	100
Average Forward Current	I _{F(AV)}	A	60HZ Half-sine wave, Resistance load, TL(Fig.1)	3.0						
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave ,1 cycle , Ta=25°C	100						
Junction Temperature	T _J	°C		-55~+125			-55~+150			
Storage Temperature	T _{STG}	°C		-55 ~ +150						

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

Item	Symbol	Unit	Test Condition	SS3						
				2A	3A	4A	5A	6A	9A	10A
Peak Forward Voltage	V _F	V	I _F =3.0A	0.50			0.70		0.85	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	0.5			0.1			
	I _{RRM2}			10			5.0			
Thermal Resistance(Typical)	R _{θJ-A}	°C/W	Between junction and ambient	75 ¹⁾						
	R _{θJ-L}		Between junction and terminal	22 ¹⁾						

Notes:

¹⁾ Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5 mm x 5 mm) copper pad areas

Characteristics (Typical)

FIG.1: FORWARD CURRENT DERATING CURVE

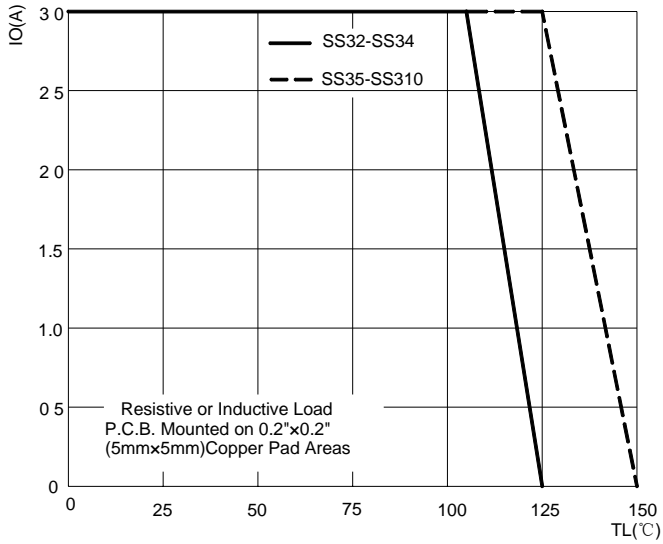


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

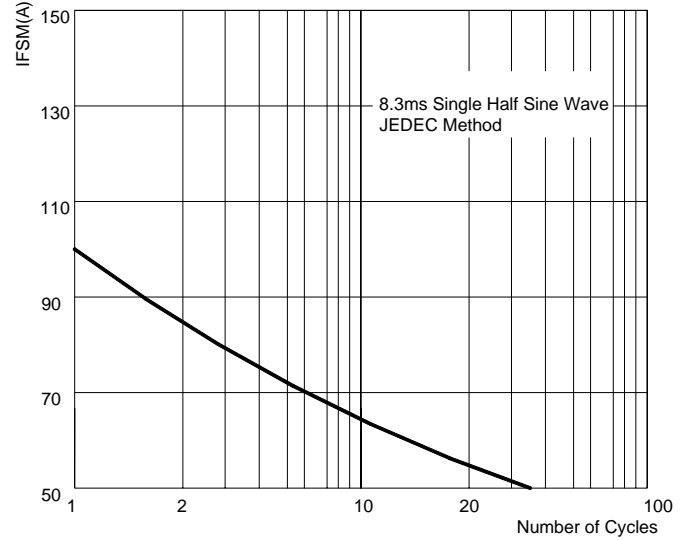


FIG.3: TYPICAL FORWARD CHARACTERISTICS

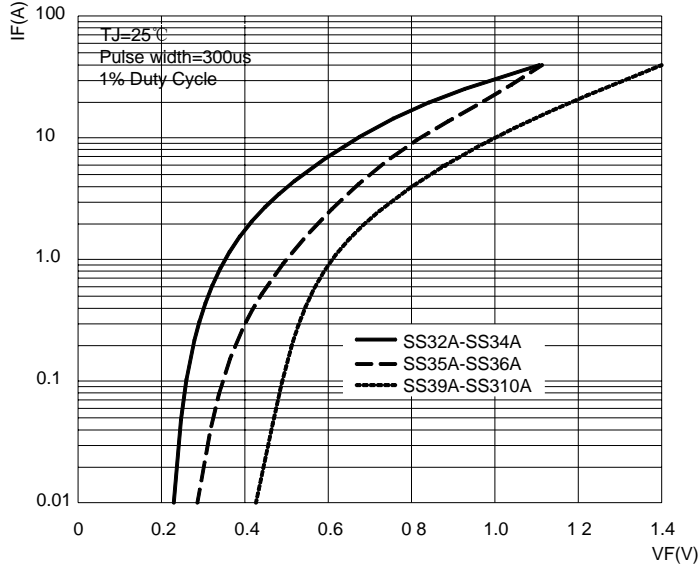
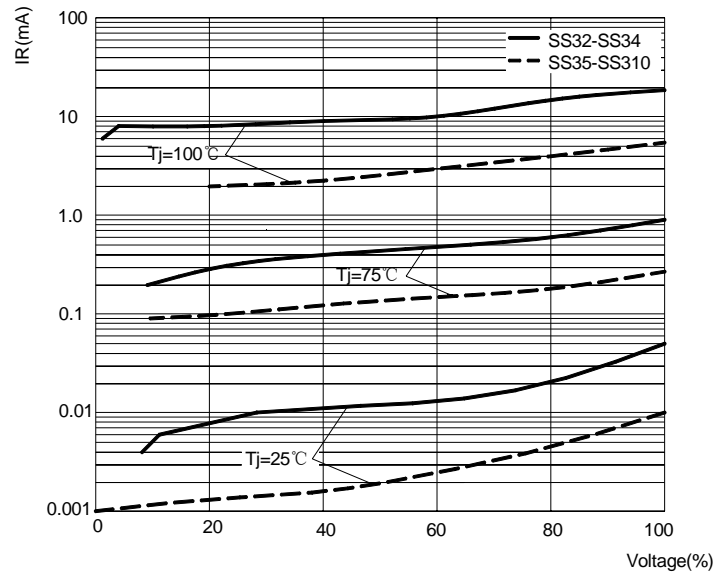


FIG.4: TYPICAL REVERSE CHARACTERISTICS



Package Dimensions in inches and (millimeters)

