

Schottky Rectifier

■ Features

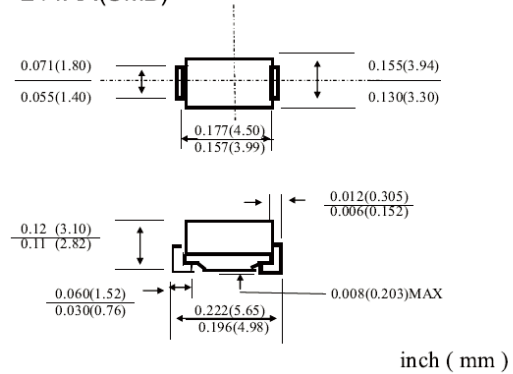
- I_o 3.0A
- V_{RRM} 20V-100V
- High surge current capability
- Cases: Molded plastic

■ Applications

- Rectifier

■ Outline Dimensions and Mark

DO - 214AA(SMB)



■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SK3							
				2B	3B	4B	5B	6B	9B	10B	
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 , $T_a = 25^{\circ}C$	100							
Junction Temperature	T_J	$^{\circ}C$		-55~+125				-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	SK3							
				2B	3B	4B	5B	6B	9B	10B	
Peak Forward Voltage	V_F	V	$I_F=3.0A$	0.50			0.70		0.85		
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$			0.5			0.1	
	I_{RRM2}			$T_a=100^{\circ}C$			10			5.0	
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient	55 ¹⁾							
	$R_{\theta J-L}$		Between junction and terminal	17 ¹⁾							

Notes:

- ¹⁾ Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas



Characteristics(Typical)

FIG.1: FORWARD CURRENT DERATING CURVE

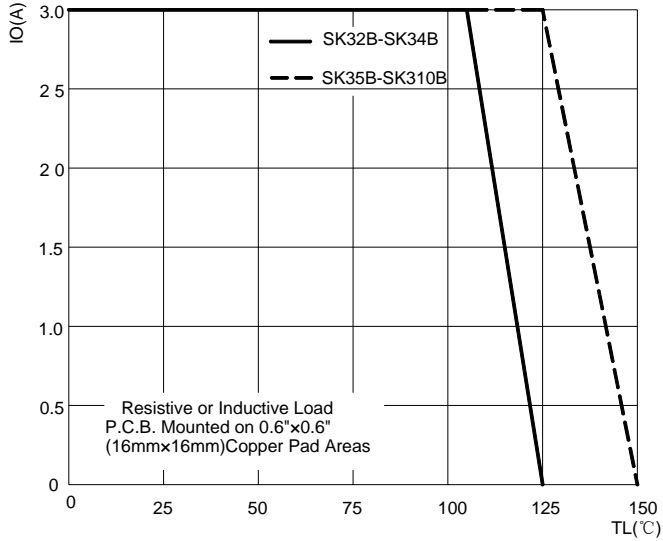


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

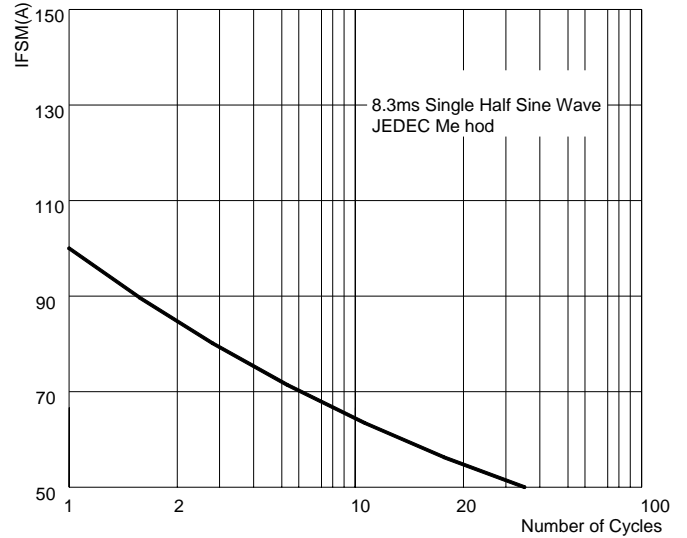


FIG.3: TYPICAL FORWARD CHARACTERISTICS

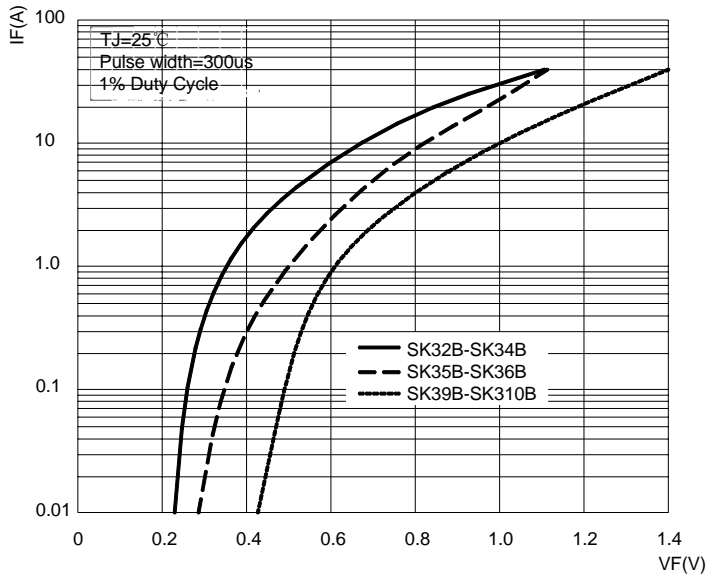


FIG.4: TYPICAL REVERSE CHARACTERISTICS

