Schottky Rectifier

■ Features

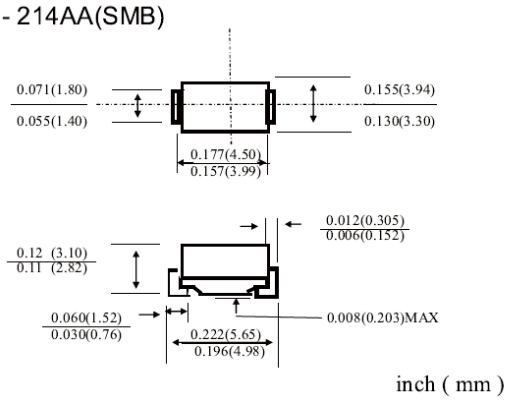
- I_o 3.0A
- V_{RRM} 20V-100V
- High surge current capability
- Cases: Molded plastic

■ Applications

- Rectifier

■ Outline Dimensions and Mark

DO - 214AA(SMB)



inch (mm)

■ 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 , Ta =25℃	100						
Junction Temperature	T_J	℃		-55~+125			-55~+150			
Storage Temperature	T_{STG}	℃		-55 ~ +150						

■ Electrical Characteristics (Ta=25℃ 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	$V_{RM}=V_{RRM}$	Ta =25℃	0.5					0.1	
	I_{RRM2}			Ta =100℃	10			5.0			
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/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

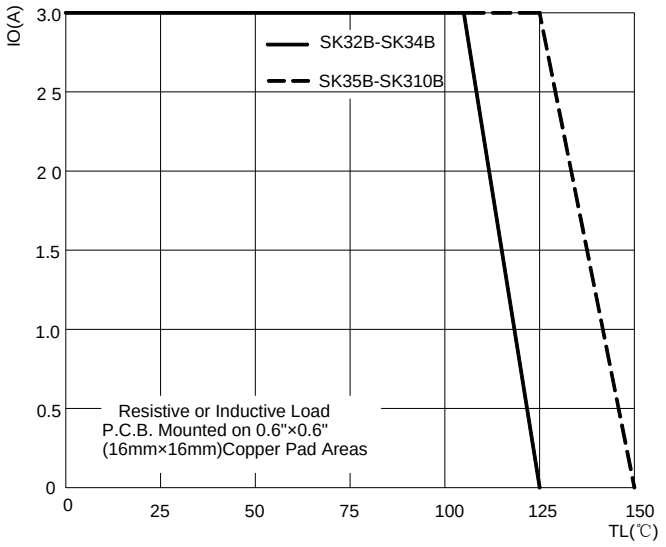


FIG.2: MAX MUM NON-REPETITIVE FORWARD URGE CURRENT

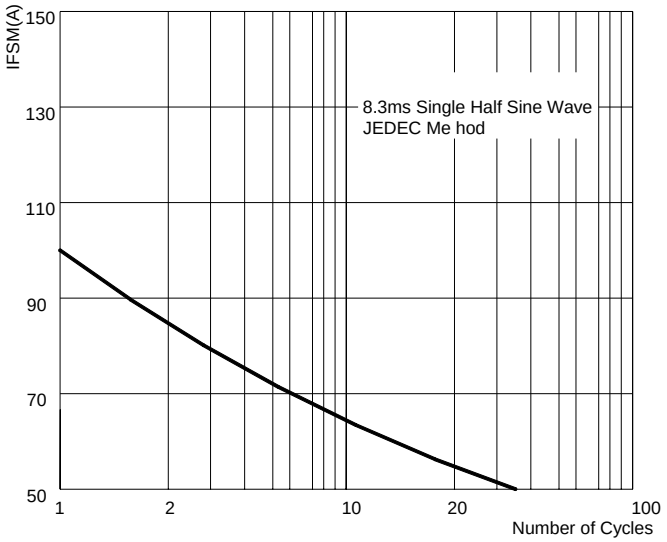


FIG.3: TYPICAL FORWARD CHARACTERISTICS

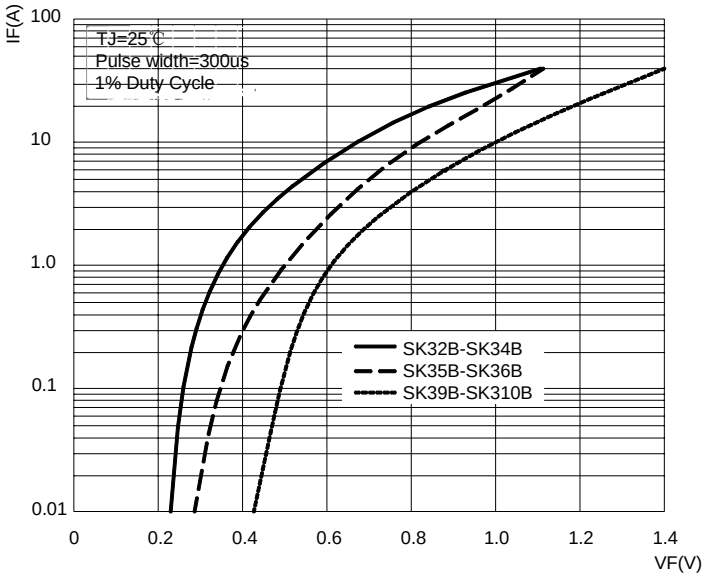


FIG.4：TYPICAL REVERSE CHARACTERISTICS

