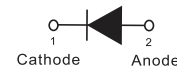
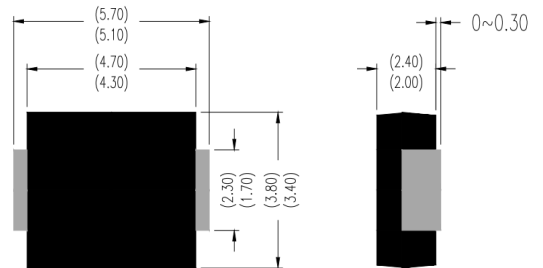


Surface Mount Schottky Rectifier

Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Compliant with RoHS standards, halogen-free

SMB/DO-214AA



Unit : inch(mm)

Mechanical Data

- **Package:** SMB/DO-214AA
- **Terminal:** Tin plated leads, solderable per
- **Polarity:** Cathode line denotes the cathode end

Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Unit	SS22B	SS23B	SS24B	SS25B	SS26B	SS28B	SS210B	SS215B	SS220B	
Repetitive peak reverse voltage	V_{RRM}	V	20	30	40	50	60	80	100	150	200	
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	I_O	A	2.0									
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, $T_a=25^\circ\text{C}$	I_{FSM}	A	50									
Storage temperature	T_{stg}	$^\circ\text{C}$	-55 ~+150									
Junction temperature	T_j	$^\circ\text{C}$	-55 ~+150					-55 ~+175				

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Unit	Test Conditions	SS22B	SS23B	SS24B	SS25B	SS26B	SS28B	SS210B	SS215B	SS220B
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM} = 2.0\text{A}$	0.55		0.70		0.85		0.95		
Maximum DC reverse current at rated DC blocking voltage per diode @ $V_{RM}=V_{RRM}$	I_{RRM}	mA	$T_a=25^\circ\text{C}$	0.50					0.10			
			$T_a=100^\circ\text{C}$	10					5			

Thermal Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Unit	SS22B	SS23B	SS24B	SS25B	SS26B	SS28B	SS210B	SS215B	SS220B
Thermal resistance	$R_{\theta J-A}$	$^\circ\text{C/W}$	75 ⁽¹⁾								
	$R_{\theta J-L}$		17 ⁽¹⁾								

Note:
(1) 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

Characteristics (Typical)

FIG1: I_o-TL Curve

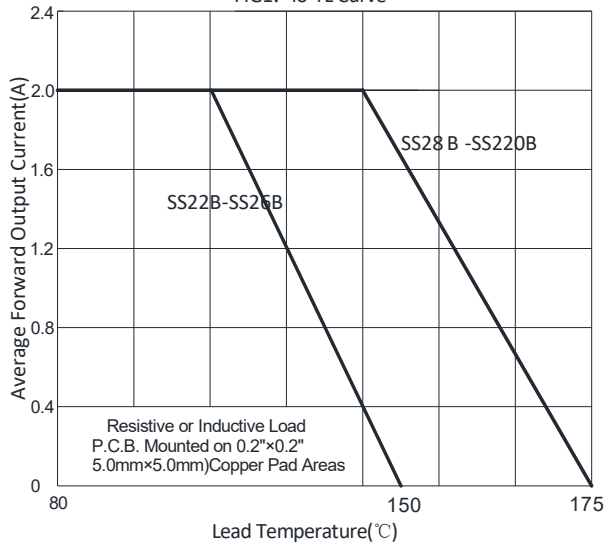


FIG2: Surge Forward Current Capability

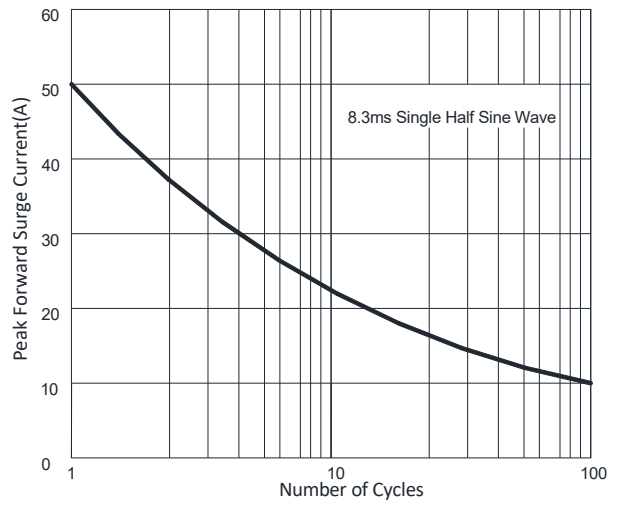


FIG3: Forward Voltage

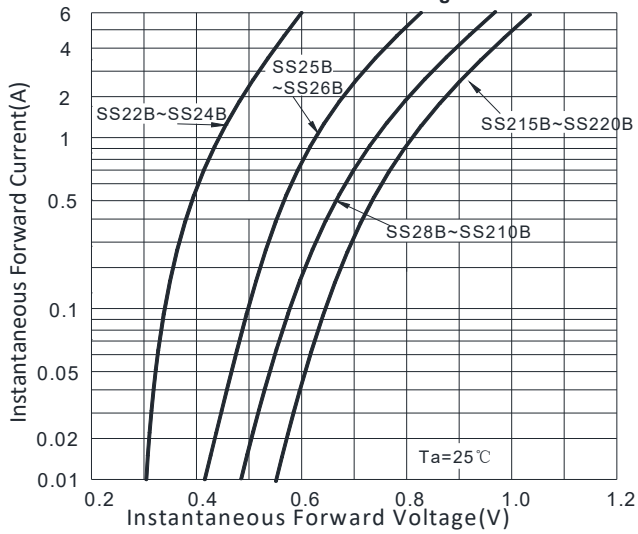


FIG4: Typical Reverse Characteristics

