




<b>SMB</b>							<b>Features</b>	
							<ul style="list-style-type: none"> <li>• Low forward voltage drop</li> <li>• High current capability</li> <li>• Moisture sensitivity: level 1, per J-STD-020</li> <li>• AEC-Q101 qualified</li> <li>• High temperature soldering guaranteed: 260°C/10 seconds</li> <li>• Halogen-free according to IEC 61249-2-21 definition</li> </ul>	
<b>Primary characteristics</b>		<b>Applications</b>					For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications	
$I_{F(AV)}$	2A							
$V_{RRM}$	20V to 60V	<b>Mechanical data</b>					<ul style="list-style-type: none"> <li>• SMB</li> <li>• Epoxy meets UL 94 V-0 flammability rating</li> <li>• Terminals: Tin plated leads.</li> <li>• Polarity: As marked.</li> </ul>	
$I_{FSM}$	50A							
$I_{RM}$	0.2/0.15mA							
$V_{FM}$ at $I_F=2A$	0.55/0.7V							
$T_J$ max.	150 °C							
<b>Maximum rating (Ta=25°C unless otherwise noted)</b>								
Parameter	Sym	SMB					Unit	
		SS22	SS23	SS24	SS25	SS26		
Max. repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	V	
Max. RMS reverse voltage	$V_{RMS}$	14	21	28	35	42	V	
Max. DC blocking voltage	$V_{DC}$	20	30	40	50	60	V	
Max. average forward current	$I_{F(AV)}$	2					A	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	50					A	
Max. instantaneous forward voltage drop per diode	$V_{FM}$	0.55			0.7		V	
Max. instantaneous reverse current at rated DC blocking voltage	$I_{RM}$	0.2			0.15		mA	
		10						
Operating junction temperature	$T_J$	-55 ~ +150					°C	
Storage temperature	$T_{STG}$	-55 ~ +150					°C	
Typical thermal resistance (Note1)	$R_{\theta J-L}$	15					°C/W	
	$R_{\theta J-A}$	75						
	$R_{\theta J-C}$	30						

**Notes:**

1 The thermal resistance from junction to lead, ambient and cover.



**Ordering information (Example)**

PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY	DELIVERYMODE
SS22				

**Typical characteristics**

(TA = 25°C unless otherwise noted)

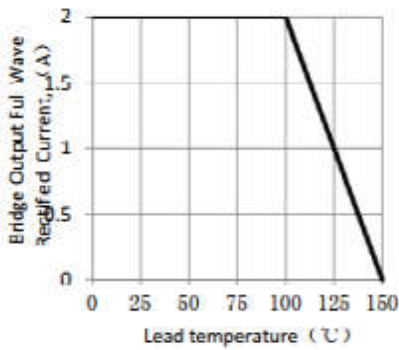


Figure 1. Forward Current Derating Curve

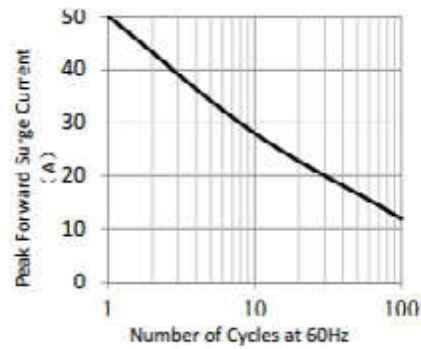


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

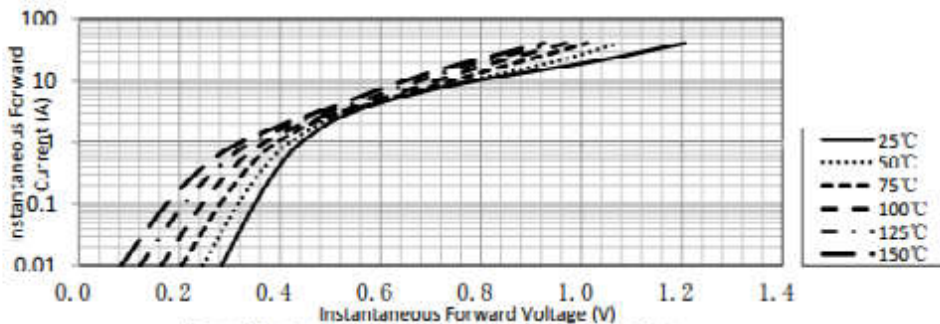


Figure 3. Typical Instantaneous Forward Characteristics

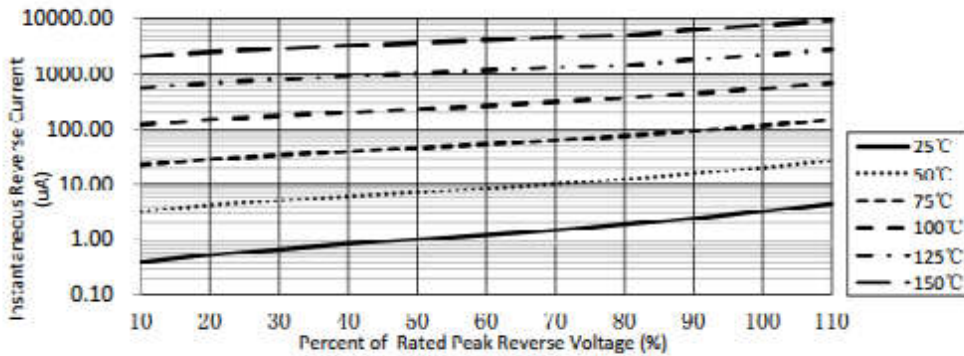


Figure 4. Typical Reverse Characteristics

Typical characteristics

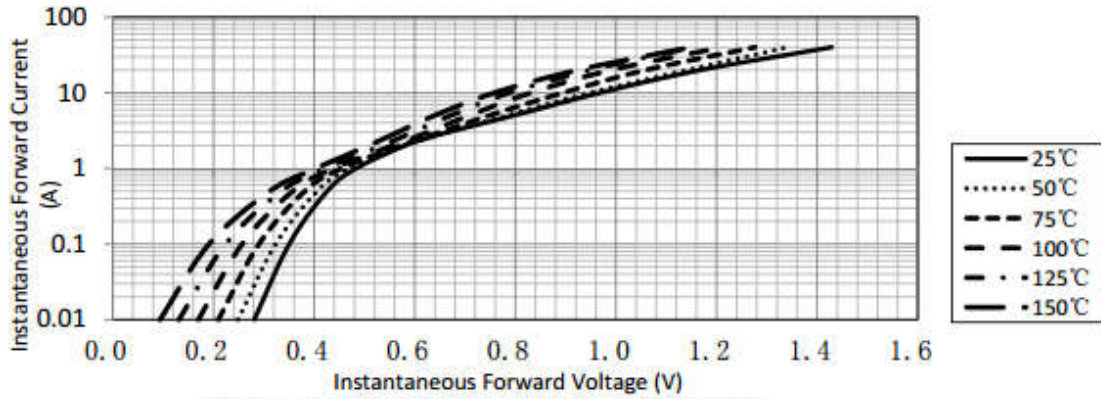


Figure 5. Typical Instantaneous Forward Characteristics (SK25 thru SK26)

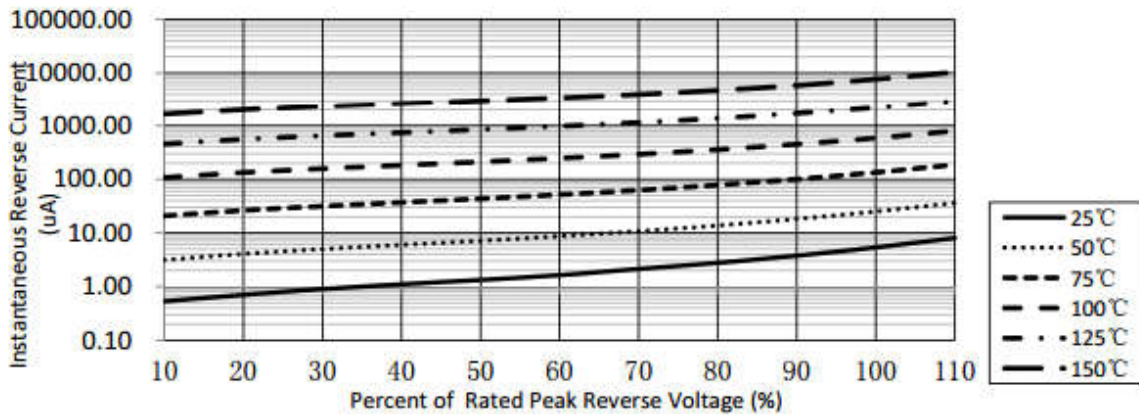
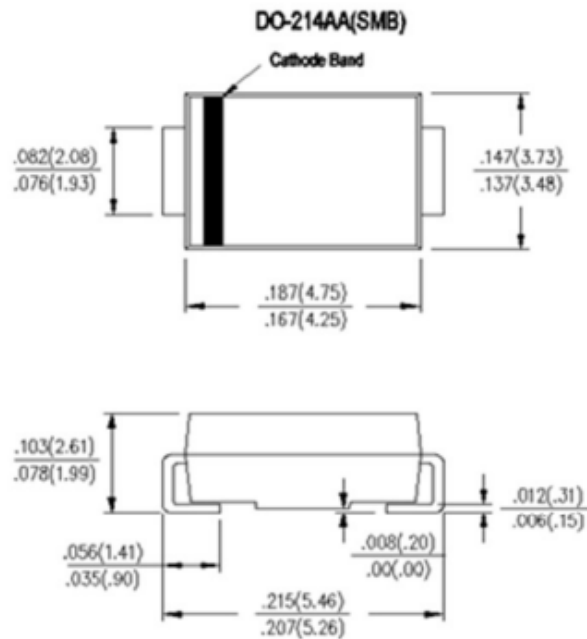


Figure 6. Typical Reverse Characteristics (SK25 thru SK26)



Package outline dimensions



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