Schottky Rectifier

■ Features

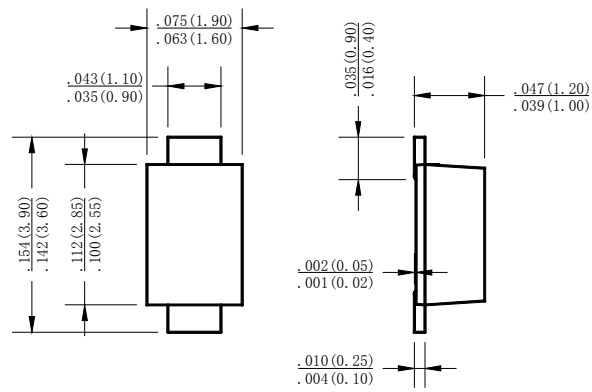
- I_o 1.0A
- V_{RRM} 20V~100V
- Low VF， Low power loss
- High surge forward current capability

■ Applications

- Rectifier

■ Outline Dimensions and Mark

SOD-123F



Dimensions in inches and (millimeters)

■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	FS1						
				2	3	4	5	6	8	10
Repetitive Peak Reverse Voltage	V_{RRM}	V		20	30	40	50	60	80	100
Average Rectified Output Current	I_O	A	60Hz One- way half- wave, R- load, Ta=75℃	1.0						
Surge(Non-repetitive) Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, T_j=25℃	30						
Storage Temperature	T_{stg}	℃		- 55 ~ +150						
Junction Temperature	T_j	℃		- 55 ~ +125				- 55 ~ +150		

■ Electrical Characteristics (T_a=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	FS1						
				2	3	4	5	6	8	10
Peak Forward Voltage	V_{FM}	V	I_{FM}=1.0A	0.5			0.7		0.85	
Peak Reverse Current	I_{RRM}	mA	$V_{RM}=V_{RRM}$, Ta=25℃	0.5						
Thermal Resistance	$R_{\theta J-L}$	℃/W	Between junction and lead	20						

■ Characteristics(Typical)

FIG. 1- FORWARD CURRENT DERATING CURVE

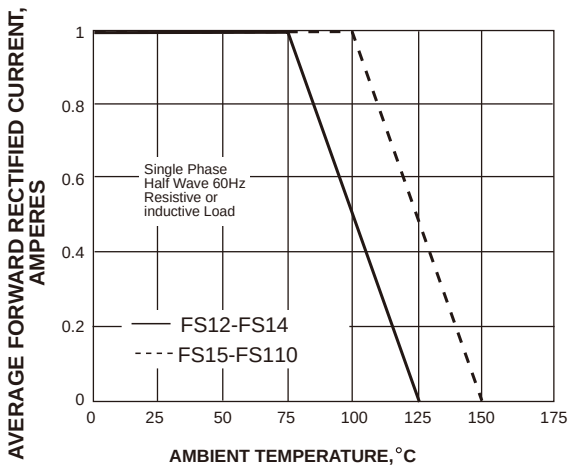


FIG2:Surge Forward Current Capadility

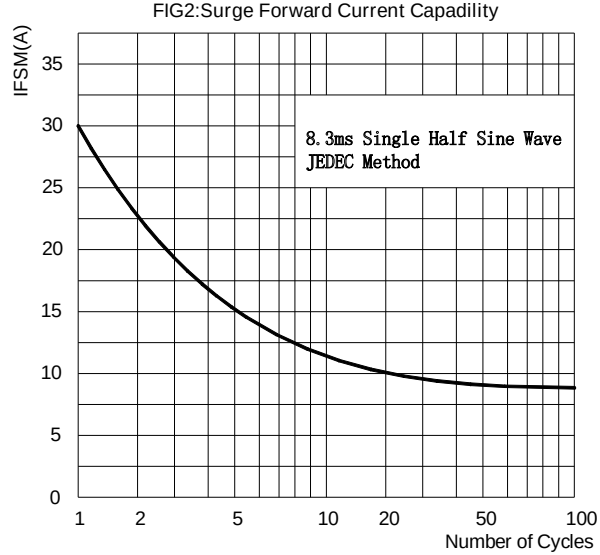


FIG3: Forward Voltage

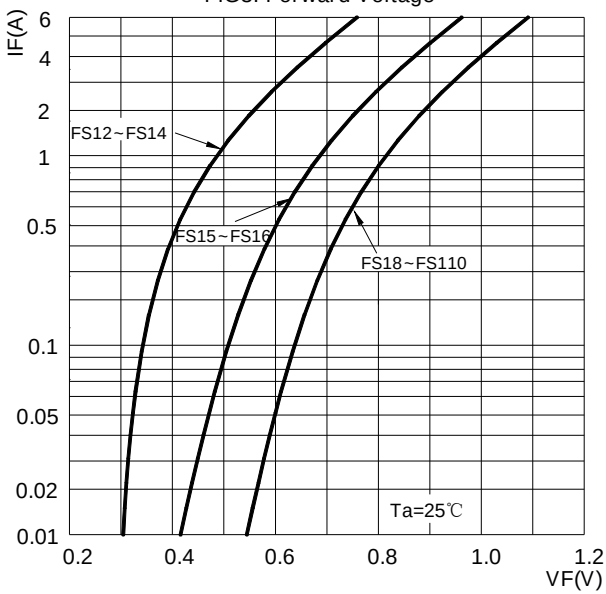


FIG4:Typical Reverse Characteristics