

M1Y-M7Y Schottky Rectifier
Feature

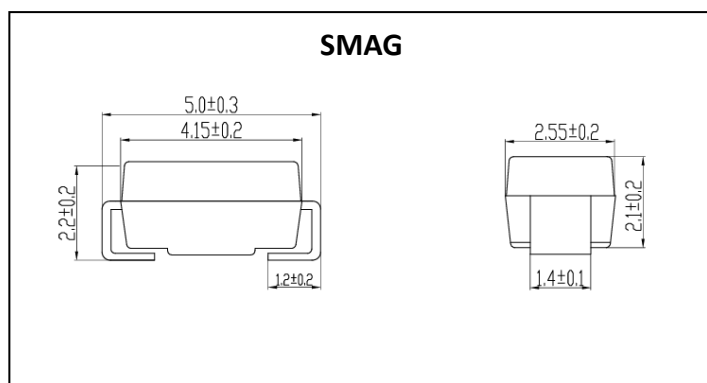
- I_o : 1A
- V_{RRM} : 50V-1000V
- Glass passivated chip
- High surge current capability

Application

- Rectifier

Marking

- MX: X From 1 to 7


ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	M							Unit
		1	2	3	4	5	6	7	
Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Forward Current	$I_{F(AV)}$	1							A
Non-repetitive Peak Forward Surge Current	I_{FSM}	30							A
Rating for fusing($t < 8.3\text{ms}$)	I^2t	3.7							A ² sec
Junction Temperature	T_J	$-55 \sim +150$							$^\circ\text{C}$
Storage Temperature	T_{STG}	$-55 \sim +150$							$^\circ\text{C}$

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

Parameter	Symbol	Test Condition		MAX	Unit
Peak Forward Voltage	V_F	$I_F = 1\text{A}$		1.1	V
Peak Reverse Current	I_{RRM1}	$V_{RM} = V_{RRM}$	$T_a = 25^\circ\text{C}$	5	μA
	I_{RRM2}		$T_a = 125^\circ\text{C}$	50	μA
Thermal	$R_{\theta J-A}$	Between junction and ambient		55	$^\circ\text{C/W}$
Resistance(Typical)	$R_{\theta J-L}$	Between junction and terminal		25	$^\circ\text{C/W}$

Typical Characteristics

Fig.1-Forward Current Derating Curve

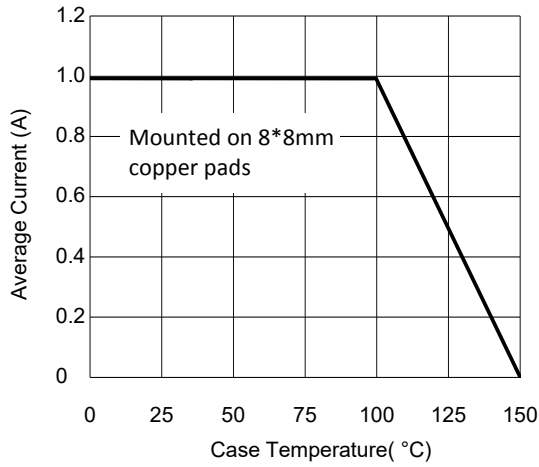


Fig.2- Surge Current Derating Curve

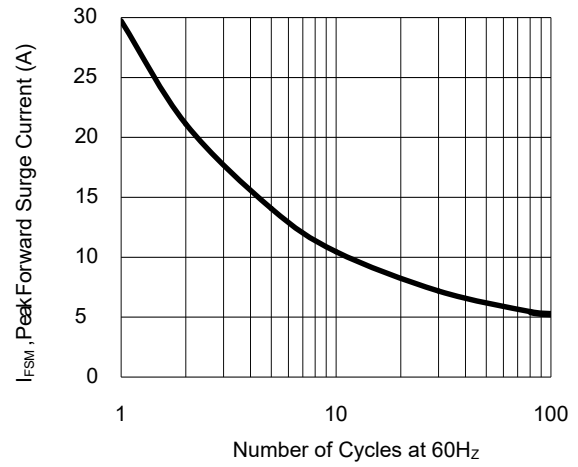


Fig.3- Typical Forward Voltage Characteristic

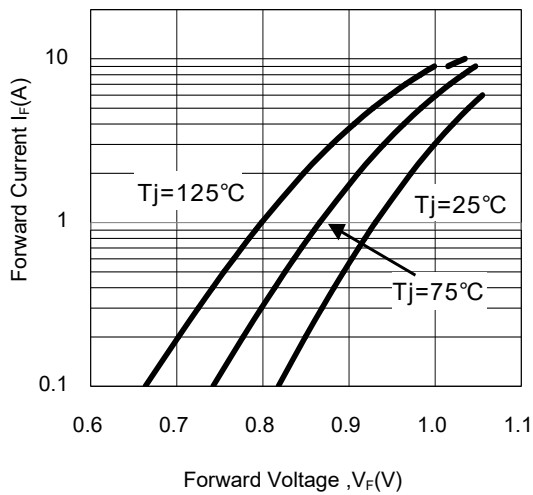
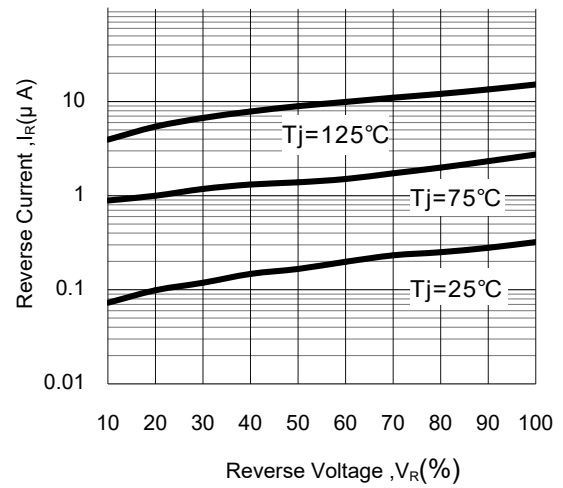


Fig.4- Typical Reverse Characteristic



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