M1-M7

50~1000V-1A General Purpose Rectifier

M1-M7 Schottky Rectifier

Feature

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

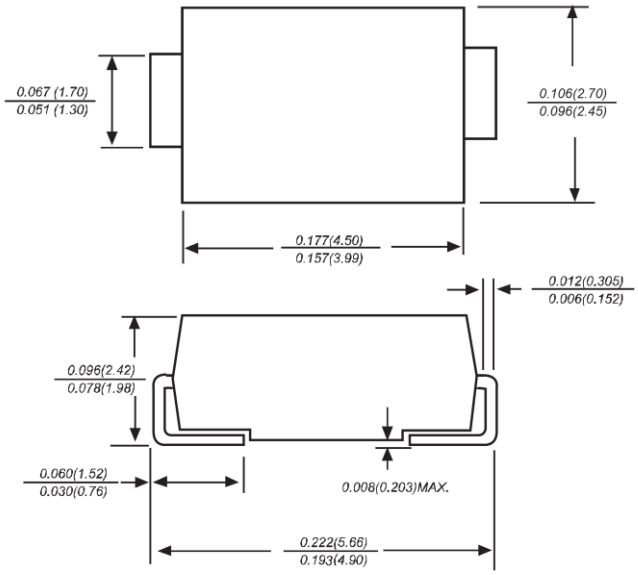
Application

- Rectifier

Marking

- MX: X From 1 to 7

DO-214AC(SMA)



Dimensions in inches and (millimeters)

ABSOLUTE MAXIMUM RATINGS (T_a=25℃ 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
Average Forward Current (60HZ Half-sine wave, Resistance load, Ta=75℃)	$I_{F(AV)}$	1							A
Non-repetitive Peak Forward Surge Current (60Hz Half-sine wave ,1 cycle ,Ta =25℃)	I_{FSM}	30							A
Junction Temperature	T_J	-55 ~ +150							℃
Storage Temperature	T_{STG}	-55 ~ +150							℃

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise noted)

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

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

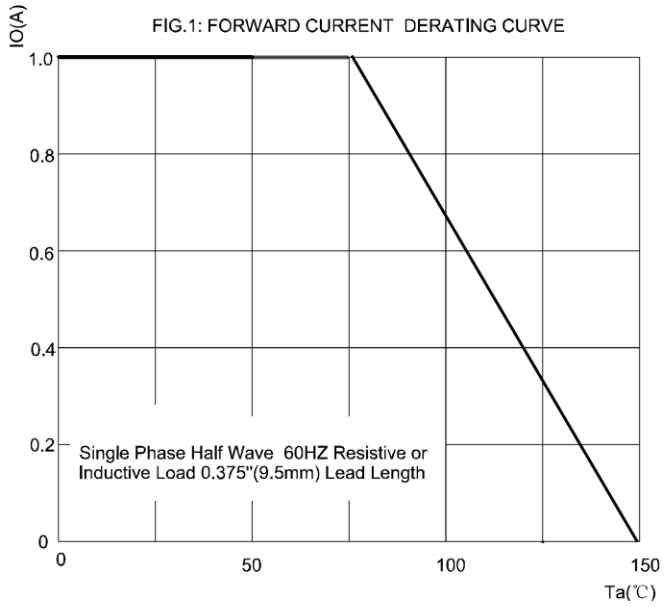


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

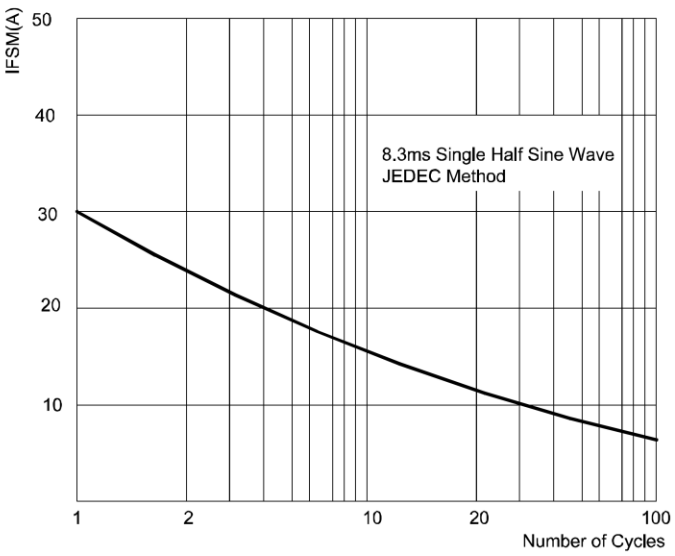


FIG.3: TYPICAL FORWARD CHARACTERISTICS

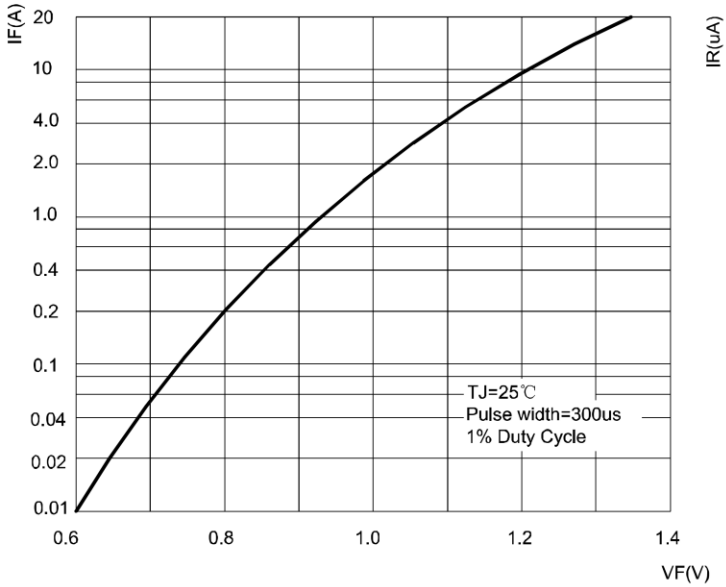


FIG.4:TYPICAL REVERSE CHARACTERISTICS