M1 THRU M7

1.0 Amp. Surface Mount Rectifiers

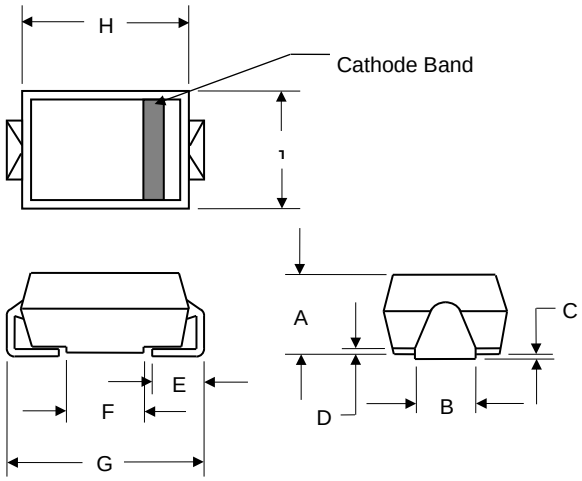
Features

* For surface mounted application
* Low Forward Voltage Drop
* High Current Capability
* Easy Pick and Place
* High Surge Current Capability
* Plastic Material Used Carries Underwriters Laboratory Classification 94V-0

RoHS COMPLIANT

Package Outline Dimensions in inches (millimeters)

SMA(W)：



	INCHES		MM	
DIM	MIN	MAX	MIN	MAX
A	.078	.116	1.98	2.95
B	.067	.089	1.70	2.25
C	.002	.008	0.05	0.20
D	-----	.020	-----	0.51
E	.035	.055	0.89	1.40
F	.065	.091	1.65	2.32
G	.205	.224	5.21	5.69
H	.160	.180	4.06	4.57
J	.100	.112	2.57	2.84

Mechanical Data

* Case: DO-214AC Molded plastic
* Terminals: Solder plated
* Polarity: Indicated by cathode band
* Standard packaging: 12mm tape(ELA STD RS-481)

Maximum Ratings and Electrical Characteristics

Rating at 25 ℃ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Type Number	**Symbols**	**M1**	**M2**	**M3**	**M4**	**M5**	**M6**	**M7**	**Unit**
Maximum Recurrent 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
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current T_L=75℃	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave	I_{FSM}	30							A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.1							V
Maximum D.C Reverse Current @ T_A=25℃ at Rated D.C Blocking Voltage @ T_A=100℃	I_R	5.0 50							μA
Maximum Reverse Recovery Time(Note1)	Trr	1.8							μS
Typical Junction Capacitance(Note2)	C_J	8							pF
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +125/-55 to +150							℃

Note: 1、Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A. 2、Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG.1 – FORWARD CURRENT DERATING CURVE

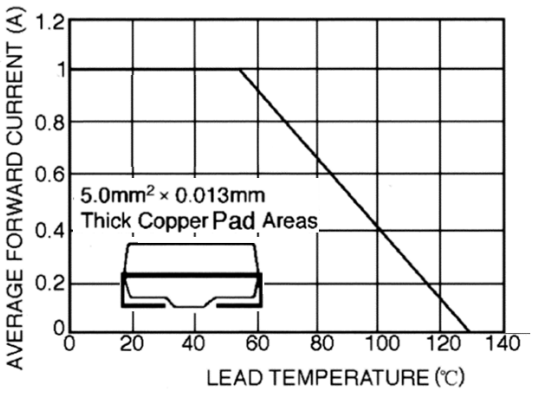


FIG.2 – MAXIMUM NON – REPETITIVE PEAK FORWARD SURGE CURRENT

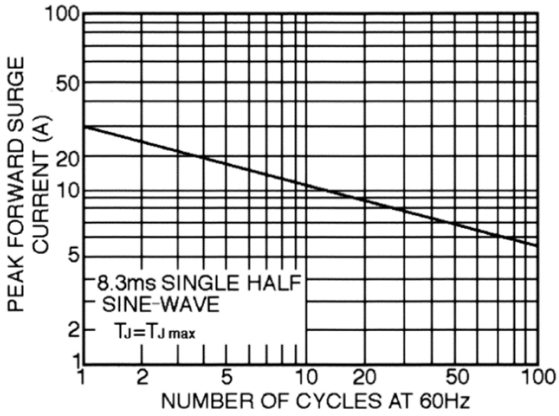


FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

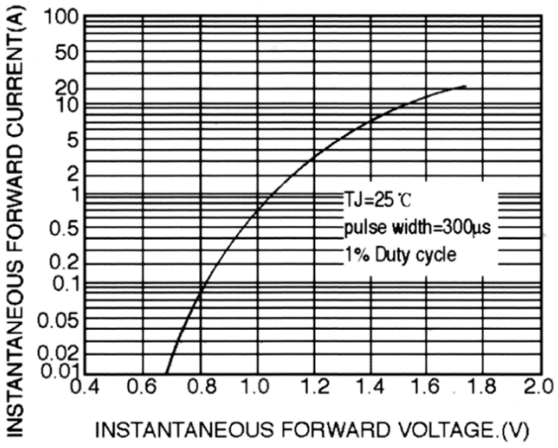


FIG.4 – TYPICAL JUNCTION CAPACITANCE

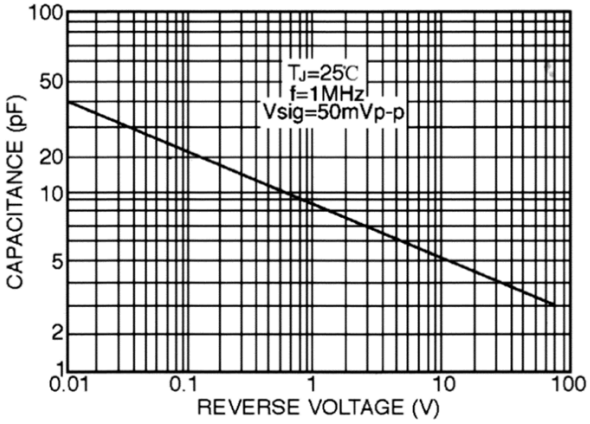
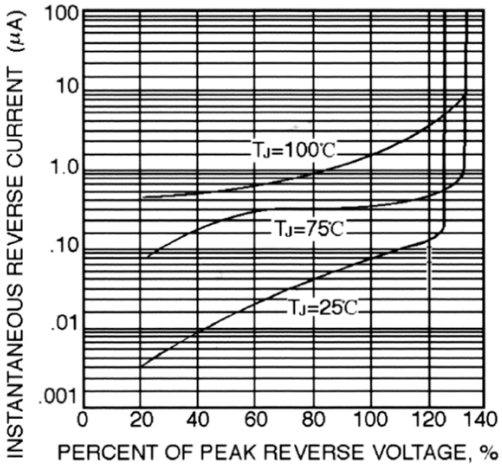


FIG.5 – TYPICAL REVERSE CHARACTERISTICS



Ordering Information

Part No.	Package	Packing
M1~M7	SMA(W)	5K/Reel
M1~M7	SMA(W)	6K/Reel
M1~M7	SMA(W)	7.5K/Reel

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