

# SURFACE MOUNT DEVICES FOR HYBRID APPLICATIONS

T-01-13



OPERATING AND STORAGE TEMPERATURE -65°C to +175°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25°C T <sub>A</sub>	Maximum Forward Voltage @ 25°C T <sub>A</sub>		Maximum Reverse Recovery Time
	PRV	I <sub>o</sub> @ T <sub>A</sub>		I <sub>FM</sub> (Surge)	I <sub>R</sub>	I <sub>FM</sub>	V <sub>FM</sub>	T <sub>rr</sub>
	V <sub>PK</sub>	A <sub>AV</sub>	°C	A <sub>PK</sub>	μA <sub>dc</sub>	A <sub>PK</sub>	V <sub>PK</sub>	nS

MASTER INSTRUMENT

56E D ■ 5850561 0000157 1T3 ■ MST

## 1.0 AMPERE-GLASS PASSIVATED/SM-1

TYPE	PRV (V <sub>PK</sub> )	A <sub>AV</sub>	°C	A <sub>PK</sub>	μA <sub>dc</sub>	I <sub>FM</sub> (A <sub>PK</sub> )	V <sub>FM</sub> (V <sub>PK</sub> )	T <sub>rr</sub> (nS)
SM4001	50	1.0	75	30	5.0	1.0	1.1	—
SM4002	100	1.0	75	30	5.0	1.0	1.1	—
SM4003	200	1.0	75	30	5.0	1.0	1.1	—
SM4004	400	1.0	75	30	5.0	1.0	1.1	—
SM4005	600	1.0	75	30	5.0	1.0	1.1	—
SM4006	800	1.0	75	30	5.0	1.0	1.1	—
SM4007	1000	1.0	75	30	5.0	1.0	1.1	—

## 1.0 AMPERE-FAST RECOVERY/SM-1

TYPE	PRV (V <sub>PK</sub> )	A <sub>AV</sub>	°C	A <sub>PK</sub>	μA <sub>dc</sub>	I <sub>FM</sub> (A <sub>PK</sub> )	V <sub>FM</sub> (V <sub>PK</sub> )	T <sub>rr</sub> (nS)
SM4933	50	1.0	55	30	5.0	1.0	1.3	*200
SM4934	100	1.0	55	30	5.0	1.0	1.3	*200
SM4935	200	1.0	55	30	5.0	1.0	1.3	*200
SM4936	400	1.0	55	30	5.0	1.0	1.3	*200
SM4937	600	1.0	55	30	5.0	1.0	1.3	*200

NOTE: \*T<sub>RR</sub> TEST @ I<sub>F</sub> = 1.0A, V<sub>R</sub> = 30V

## 1.0 AMPERE-FAST RECOVERY/FSM-1

TYPE	PRV (V <sub>PK</sub> )	A <sub>AV</sub>	°C	A <sub>PK</sub>	μA <sub>dc</sub>	I <sub>FM</sub> (A <sub>PK</sub> )	V <sub>FM</sub> (V <sub>PK</sub> )	T <sub>rr</sub> (nS)
FSM101	50	1.0	55	30	5.0	1.0	1.3	150
FSM102	100	1.0	55	30	5.0	1.0	1.3	150
FSM103	200	1.0	55	30	5.0	1.0	1.3	150
FSM104	400	1.0	55	30	5.0	1.0	1.3	150
FSM105	600	1.0	55	30	5.0	1.0	1.3	250
FSM106	800	1.0	55	30	5.0	1.0	1.3	500
FSM107	1000	1.0	55	30	5.0	1.0	1.3	500