

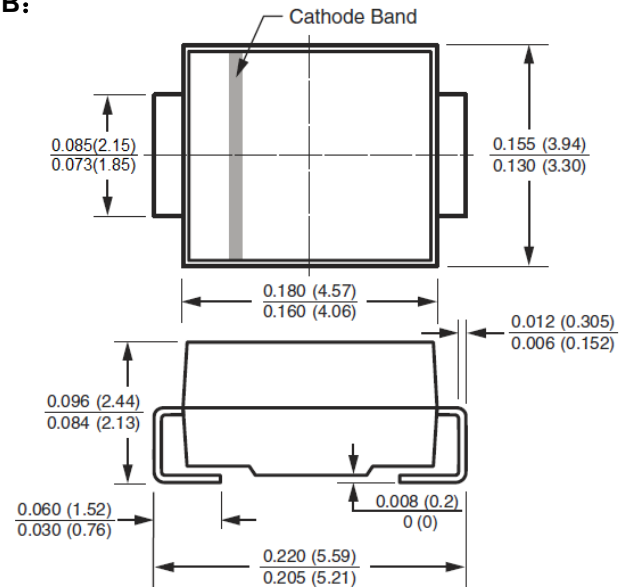
Features

- * For surface mounted application
- * Extremely Low Thermal Resistance
- * Easy Pick and Place
- * High Temp Soldering: 260°C For 10seconds at Terminals
- * Superfast Recovery Times For High Efficiency



Package Outline Dimensions in inches (millimeters)

SMB:



Mechanical Data

- * Case: 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 °C 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	FS2A	FS2B	FS2D	FS2G	FS2J	FS2K	FS2M	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 $T_L=90^\circ C$	$I_{F(AV)}$	2							A
Peak Forward Surge Current, 8.3ms single half sine-wave	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage at 2A(Note1)	V_F	1.3							V
Maximum D.C Reverse Current @ $T_J=25^\circ C$ at Rated D.C Blocking Voltage @ $T_J=125^\circ C$	I_R	5 50							μA
Maximum Reverse Recovery Time(Note2)	T_{rr}	150				250	500		nS
Typical Junction Capacitance(Note3)	C_J	50							pF
Typical Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$	18 55							$^\circ C/W$
Operating and Storage Temperature Range	T_J/T_{STG}	-55 to +150							$^\circ C$

NOTE: 1、 Pulse test: $t_p=300\mu S$, 1% duty cycle 2、 Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$.

3、 Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG. 1 FORWARD CURRENT DERATING CURVE

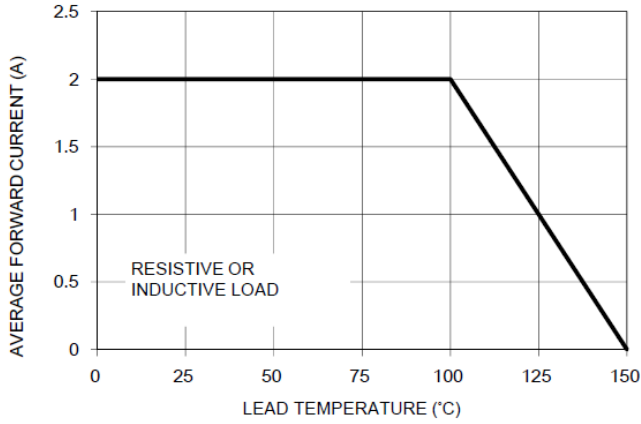


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

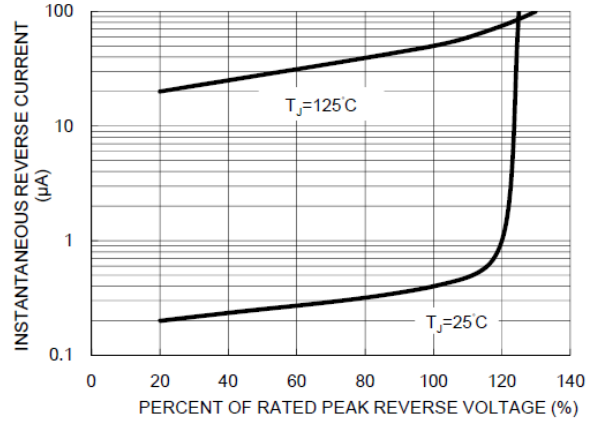


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

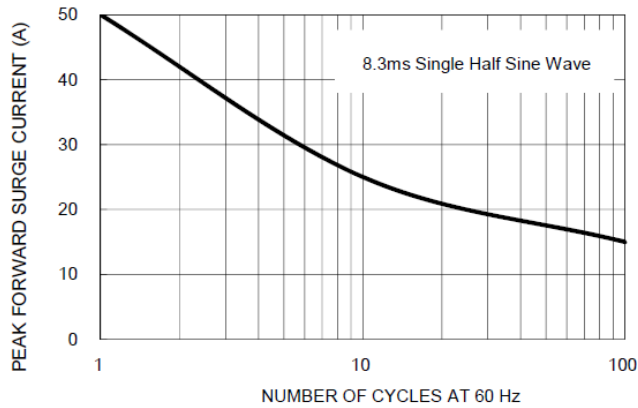


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

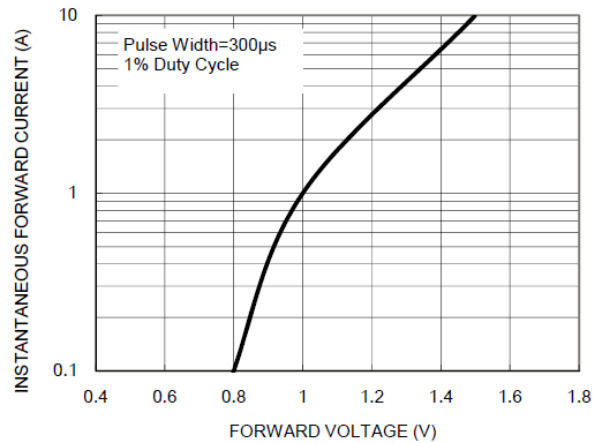


FIG. 5 TYPICAL JUNCTION CAPACITANCE

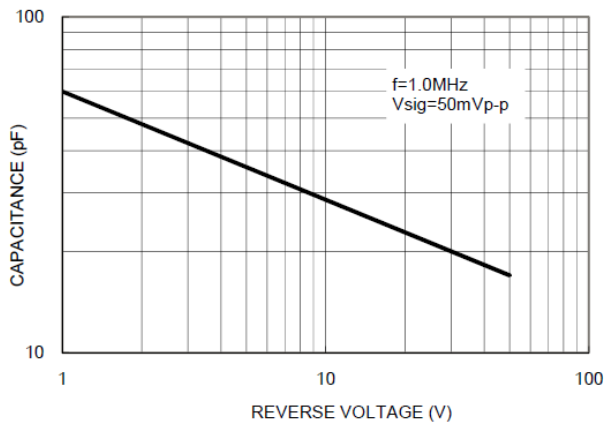
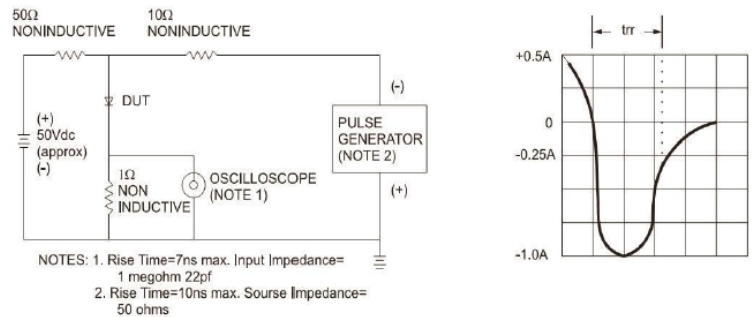


FIG. 6 REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





FS2A THRU FS2M

2.0 Amp. Surface Mount Glass Passivated Fast Recovery Rectifiers

Ordering Information

Part No.	Package	Packing
FS2A~FS2M	SMB	3K/Reel