



YENYO

FS2A THRU FS2K

Surface Mount Super Fast Recovery Rectifier

Features

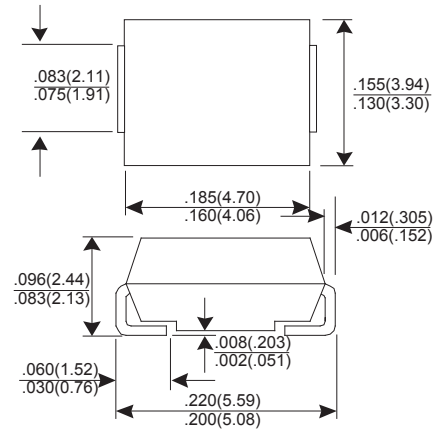
- * Fast switching for high efficiency
- * Low forward voltage drop
- * High current capability
- * Low reverse leakage current
- * High surge current capability
- * Glass passivated chip

Mechanical Data

- * Case: Molded plastic SMB/DO-214AA
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solderable per MIL-STD-750 method 2026
- * Polarity: Color band denotes cathode
- * Mounting position: Any
- * Weight: 0.093 gram

**Voltage Range 50 to 800 V
Current 2.0 Ampere**

SMB-DO-214AA



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	FS2A	FS2B	FS2D	FS2G	FS2J	FS2K	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	V
Maximum Average Forward Rectified Current TA=110°C	IF(AV)	2.0						A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	60						A
Maximum Instantaneous Forward Voltage @ 2.0 A	VF	0.95			1.25	1.7	2.2	V
Maximum DC Reverse Current @TA=25°C	IR	5.0						uA
At Rated DC Blocking Voltage @TA=125°C		100						uA
Maximum Reverse Recovery Time (Note 1)	Trr	35						nS
Typical junction Capacitance (Note 2)	CJ	25						pF
Typical Thermal Resistance (Note 3)	RθJA	20						°CW
Operating Junction and Storage Temperature Range	TJ, TSTG	-65 to +150						°C

NOTES : (1) Measured With IF=0.5A ,Ir=1.0A,Irr=0.25A. See figure 5.
 (2) Measured at 1.0 MHZ and applied reverse voltage of 4.0 V DC.
 (3) Mounted on P.C. Board 5mm X 5mm copper pad area.

RATINGS AND CHARACTERISTIC CURVES FS2A THRU FS2K

FIG.1 - FORWARD CURRENT DERATING CURVE

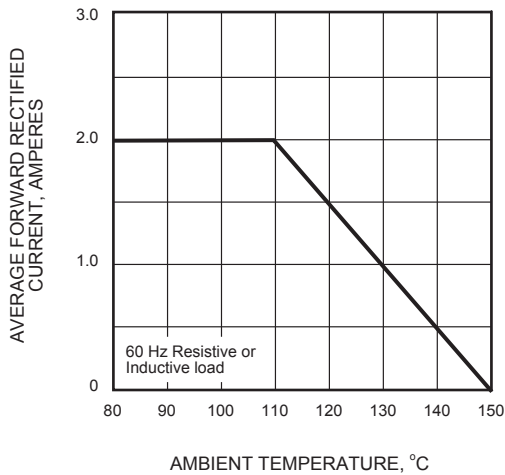


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

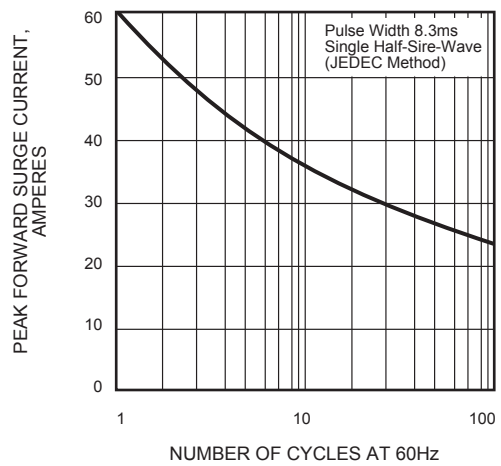


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

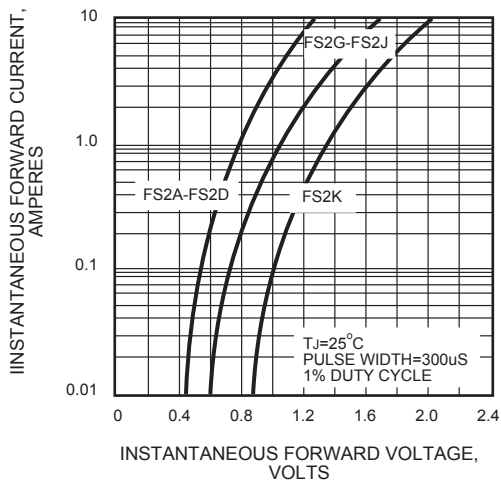


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

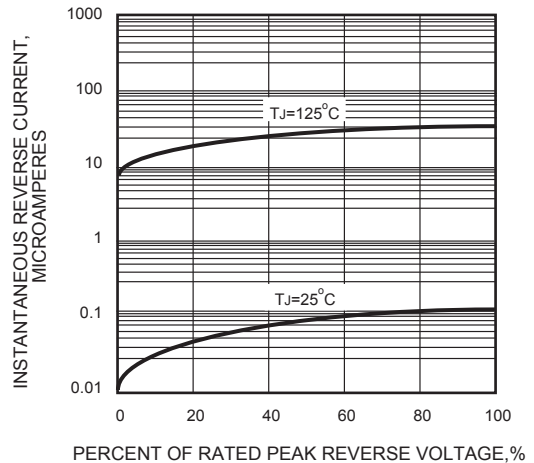


FIG.5 - TYPICAL JUNCTION CAPACITANCE

