



WEET Technology Company Limited

FAST RECOVERY RECTIFIER

FS2A THRU FS2M

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

2.0 Ampere

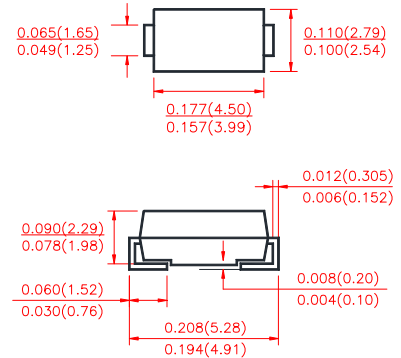
FEATURES

- Plastic package has underwrites laboratory flammability Classification 94V-0
- Low profile surface mount package
- Built-in strain relief
- Fast switching for high efficiency
- Glass passivated chip junction
- High temperature soldering
250°C/10 second at terminals

MECHANICAL DATA

- Case: JEDED DO-214AC molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002ounce, 0.064 gram

DO-214AC(SMA)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

	SYMBOLS	FS2A	FS2B	FS2D	FS2G	FS2J	FS2K	FS2M	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current T _L =90℃	I _{F(AV)}	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) T _L =90℃	I _{FSM}	50							Amps
Typical Thermal Resistance (Note 1)	R _{θJA}	105							℃/W
	R _{θJL}	32							
Operating junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							℃

ELECTRICAL CHARACTERISTICS

		SYMBOLS	FS2A	FS2B	FS2D	FS2G	FS2J	FS2K	FS2M	UNIT
Maximum Instantaneous Forward Voltage at 1.5A		V _F	1.30							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25°C	I _R	2.0							µA
	T _A = 125°C		50							
Typical Reverse Recovery Time at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}	150				250	500		ns
Typical junction capacitance at 4.0V, 1MHz		C _J	30					7.0		pF

Notes:

- Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with 0.2×0.2" (5.0 × 5.0mm) copper pad areas.



WEE Technology Company Limited

FAST RECOVERY RECTIFIER

FS2A THRU FS2M

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

2.0 Ampere

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

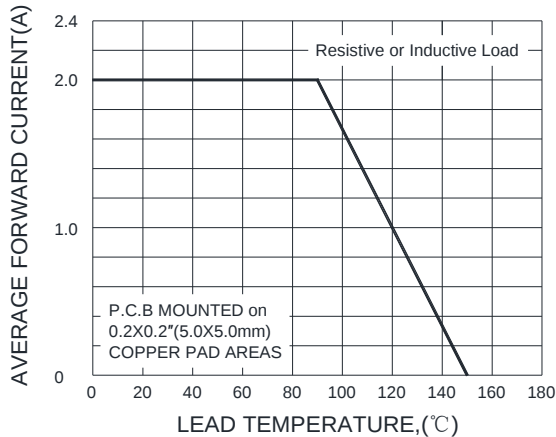


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

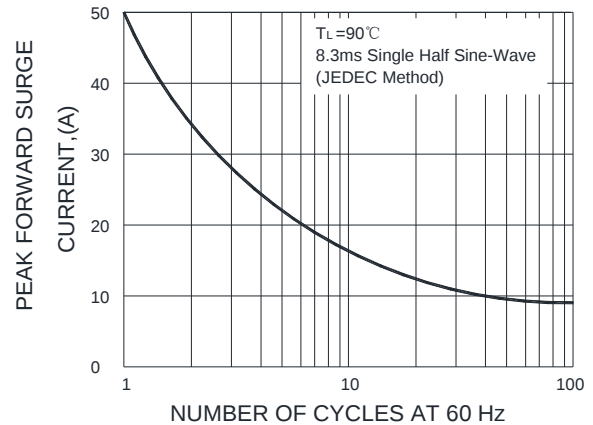


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

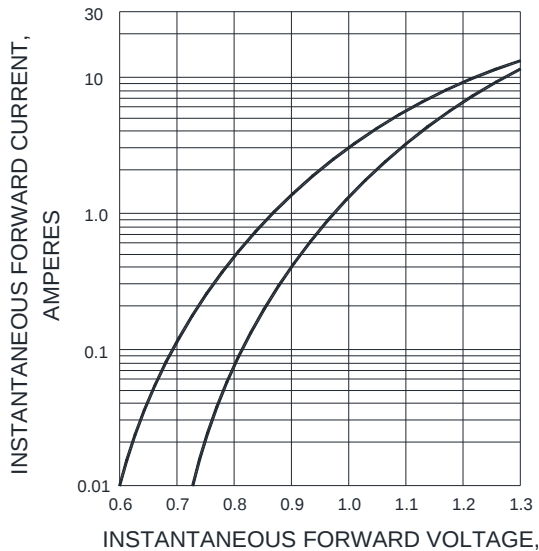


FIG.4-TYPICAL REVERSE CHARACTERISTICS

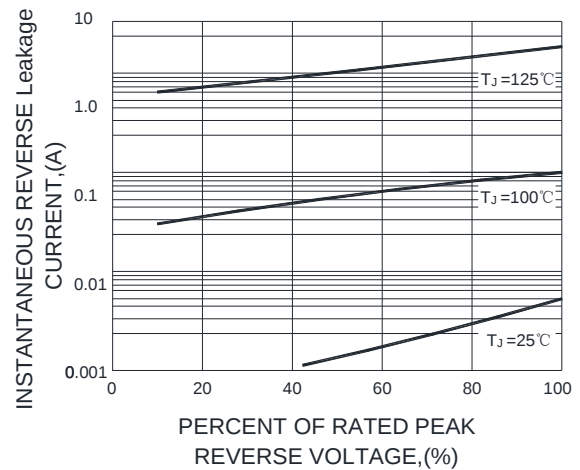


FIG.5-TYPICAL JUNCTION CAPACITANCE

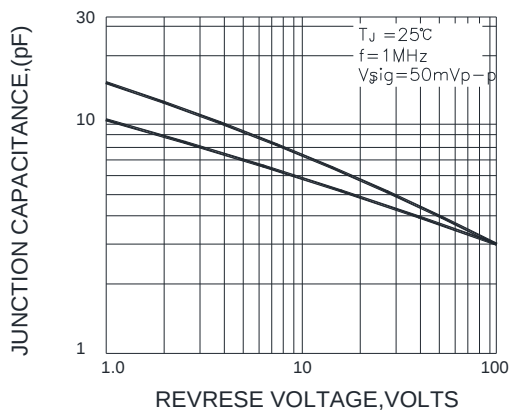
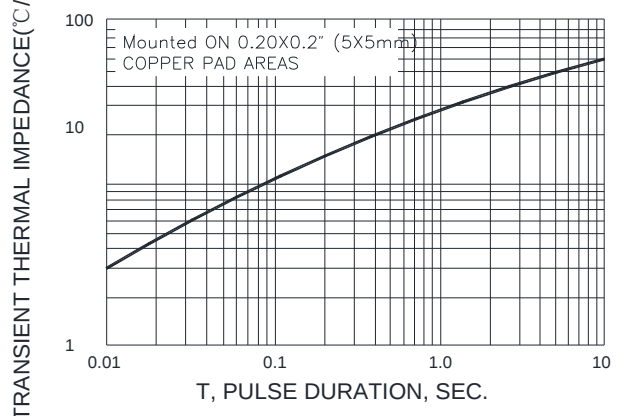


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.