



WEET Technology Company Limited

FAST RECOVERY RECTIFIER

R2A THRU R2M

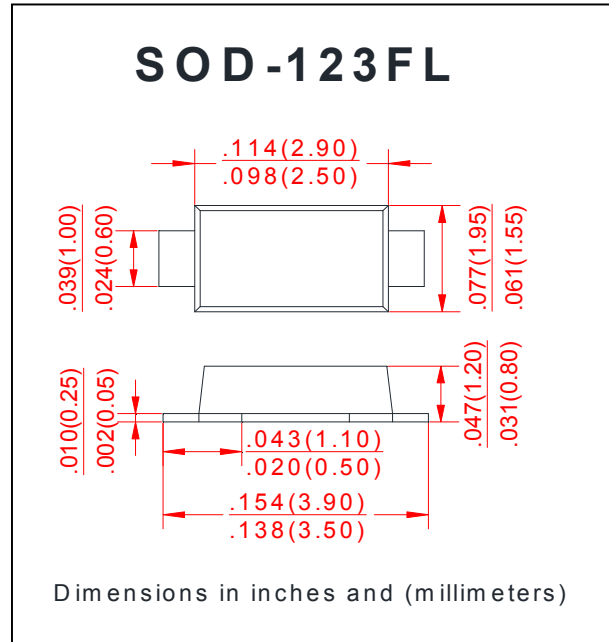
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 2.0 Ampere

FEATURES

- Fast recovery glass passivated chip
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering:
260°C/10S at terminals
- Component in accordance to
ROHS 2002/95/1 and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDEC SOD-123FL mold plastic
Body over glass passivated chip
- Terminals: Solder plated, solderable per
J-STD-002B and JESD22-B102D
- Polarity: Laser band denote cathode band



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	R2A	R2B	R2D	R2G	R2J	R2K	R2M	UNITS	
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	$I_{(AV)}$	2.0							Amps	
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							Amps	
Maximum Instantaneous Forward Voltage at 2.0A	V_F	1.3							Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A = 25^\circ C$	I_R							100	μA
	$T_A = 125^\circ C$									
Maximum Reverse Recovery Time(NOTE1)	T_{RR}	150				250	500		nS	
Typical Junction Capacitance (NOTE2)	C_J	40							pF	
Typical Thermal Resistance (NOTE 3)	$R_{\theta JA}$	90							$^\circ C/W$	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ C$	

Notes:

- 1.Reverse Recovery Test Conditions: $I_f=0.5A, I_r=1.0A, I_{rr}=0.25A$.
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 3.Thermal Resistance from Junction to Ambient at $5.0 \times 5.0mm^2$ copper pad areas.



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

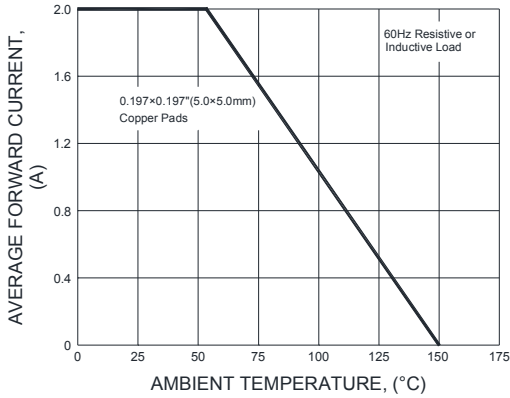


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

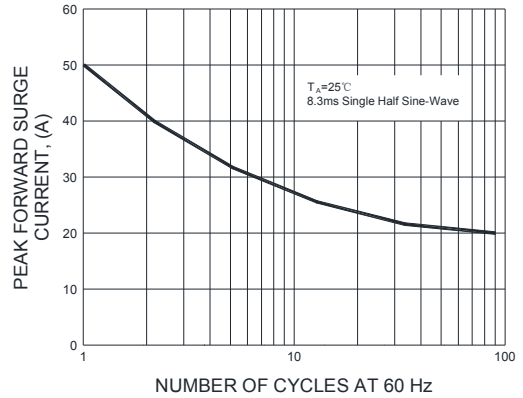


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

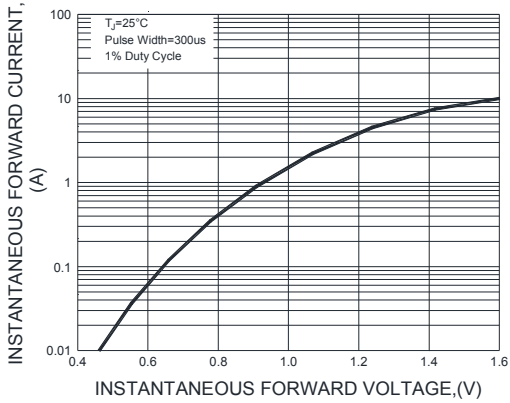


FIG.4-TYPICAL REVERSE CHARACTERISTICS

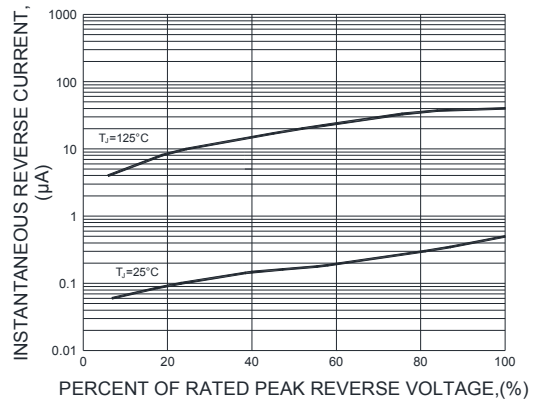
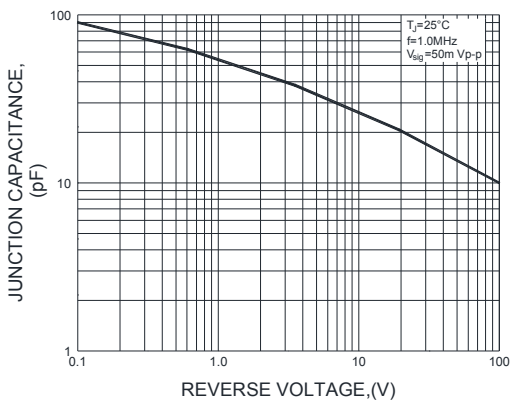


FIG.5-TYPICAL JUNCTION CAPACITANCE



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