



Surface Mount Ultra Fast Recovery Rectifier

Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Super Fast reverse recovery time
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in high frequency rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

- **Package:** DO-214AC (SMA)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

PARAMETER	SYMBOL	UNIT	UG2AA	UG2BA	UG2CA	UG2DA	UG2FA	UG2GA	UG2HA	UG2JA
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	150	200	300	400	500	600
Maximum RMS Voltage	VRMS	V	35	70	105	140	210	280	350	420
Maximum DC blocking Voltage	VDC	V	50	100	150	200	300	400	500	600
Average rectified output current @ 60Hz sine wave, Resistance load, TL (FIG.1)	IO	A	2.0							
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, Tj = 25 °C	IFSM	A	50							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 °C			100							
Current squared time @1ms≤t≤8.3ms Tj=25 °C	I²t	A²s	10.375							
Storage temperature	Tstg		-55 ~ +150							
Junction temperature	Tj		-55 ~ +150							

Electrical Characteristics Ta=25 °C Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	UG2AA	UG2BA	UG2CA	UG2DA	UG2FA	UG2GA	UG2HA	UG2JA
Maximum instantaneous forward voltage	VF	V	IF = 1A, Tj = 25 °C	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Reverse leakage current	IR	μA	VR = 50V, Tj = 25 °C	1	1	1	1	1	1	1	1
Reverse recovery time	trr	ns	IF = 1A, VR = 50V, Tj = 25 °C	50	50	50	50	50	50	50	50



UG2AA THRU UG2JA

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