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

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Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	150	200	300	400	500	600
Maximum RMS Voltage	V_{RMS}	V	35	70	105	140	210	280	350	420
Maximum DC blocking Voltage	V_{DC}	V	50	100	150	200	300	400	500	600
Average rectified output current @60Hz sine wave, Resistance load, TL (FIG.1)	I_O	A	2.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, TJ = 25	I_{FSM}	A	50							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			100							
Current squared time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	10.375							
Storage temperature	T_{stg}		-55 ~ +150							
Junction temperature	T_j		-55 ~ +150							

■Electrical Characteristics（ T_a=25 Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	UG2AA	UG2BA	UG2CA	UG2DA	UG2FA	UG2GA	UG2HA	UG2JA
Maximum instantaneous forward voltage	VF VF I'					Tj =25					5
				IR	μA						
			Tj =125			50					