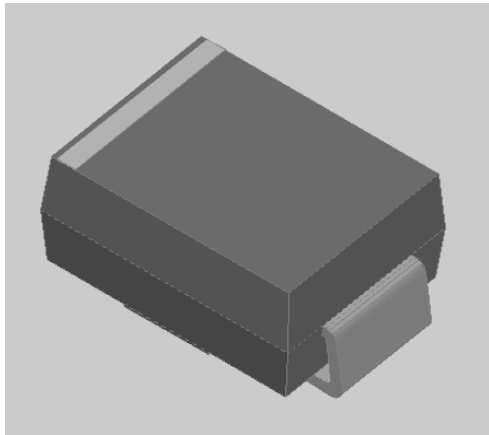


Surface Mount Super Fast Recovery Rectifier

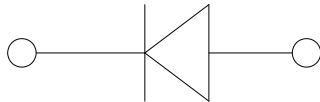


Features

- 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-214AA (SMB)
- 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

■Maximum Ratings (Ta = 25°C)

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 @ 60 Hz sine wave, resistance load, TL (Fig.1)	IO	A	2.0							
Forward Surge Current (Non-repetitive) @ 60 Hz Half-sine wave, 1 cycle, Tj = 25	IFSM	A	50							
Forward Surge Current (Non-repetitive) @ 1ms, square wave, 1 cycle, Tj = 25			100							
Current squared time @ 1ms to 8.3 ms, Tj = 25	I²t	A²s	10.375							
Storage temperature	Tstg	°C	-55 ~ +150							
Junction temperature	Tj	°C	-55 ~ +150							



UG2A THRU UG2J

Electrical Characteristics $T_a = 25^\circ\text{C}$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	UG2A	UG2B	UG2C	UG2D	UG2F	UG2G	UG2H	UG2J
Maximum instantaneous forward voltage	V _F	V	I _{FM} = 2.0 A	0.92				1.25		1.7	
Maximum reverse recovery time	t _{rr}	ns	I _F = 0.5A to 1.0 A , I _{rr} = 0.25A	25						35	

Maximum DC reverse current at rated DC blocking voltage I_R μA



UG2A THRU UG2J

Thermal Characteristics^ $T_a = 25^\circ\text{C}$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	UG2A	UG2B	UG2C	UG2D	UG2F	UG2G	UG2H	UG2J
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Typical Thermal resistance



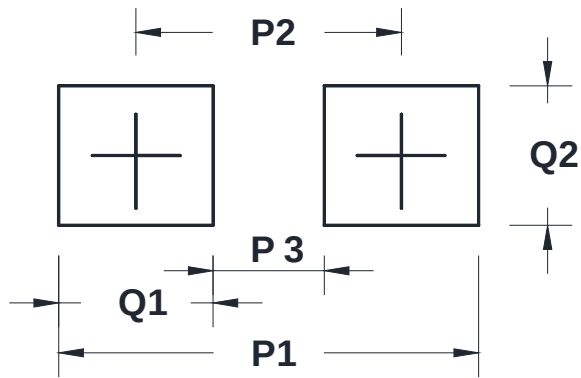
Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
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UG2A THRU UG2J

■ Suggested pad layout



Dimensions in millimeters

DO-214AA(SMB)	
Dim	Millimeters
P1	6.8
P2	4.3
P3	1.8
Q1	2.5
Q2	2.3



UG2A THRU UG2J

Disclaimer

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