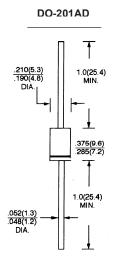


UF5400G THRU UF5408G

GLASS PASSIVATED SUPER FAST RECTIFIER

Reverse Voltage - 50 to 800 Volts Forward Current - 3.0 Ampere



Dimensions in inches and (millimeters)

FEATURES

- Low forward voltage drop
- Hight current capability
- High reliability
- High surge current capability

MECHANICAL DATA

Case: Molded plastic

Epoxy: UL 94V-0 rate flame retardant

Lead: Axial leads, solderable per MIL-STD-202, method 208

guaranteed

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 1.18 grams

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 current derate by 20%.

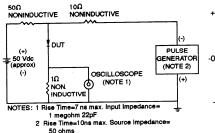
TYPE NUMBER	SYMBOLS	HER 5400G	HER 5401G	HER 5402G	HER 5404G	HER 5406G	HER 5407G	HER 5408G	UNITS
Maximum Recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	430	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=50 °C	l(AV)	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	lfsm	100							Amps
Maximum instantaneous forward voltage at 3.0A NOTE1)	VF	1.1 1.4						Volts	
Maximum DC reverse current Ta=25° C at rated DC blocking voltage Ta=125°C	lR	10.0 200							μА
Maximum reverse recovery time (NOTE 2)	trr	50 75				' 5	ns		
Typical junction capacitance (NOTE 3)	Сı	80				5	50	pF	
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150						°C	

Note: 1.Each lead mounted on a 0.8X0.8X0.04"(20X20X1mm) copper heat-sink

- 2.Reverse recovery test condition IF=0.5A,IR=1.0A,Irr=0.25A
- 3. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES UF5400G THRU UF5408G

FIG. 1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



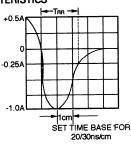


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

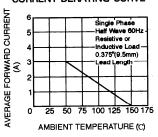


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

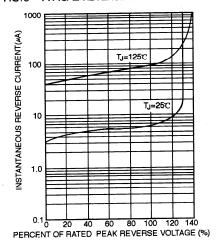


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

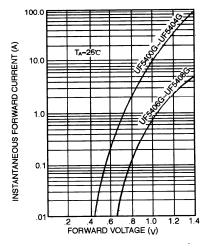


FIG.5 - MAXIMUM NON - REPETITIVE FORWARD SURGE CURRENT

