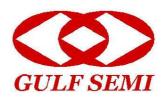
## UF5400-E thru UF5408-E

# ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

Voltage: 50 to 1000V Current: 3.0A



## **FEATURE**

Low power loss
High surge capability
Ultra-fast recovery time for high efficiency
High temperature soldering guaranteed
250°C/10sec/0.375″ lead length at 5 lbs tension
Halogen Free

## **MECHANICAL DATA**

Terminal: Plated axial leads solderable per

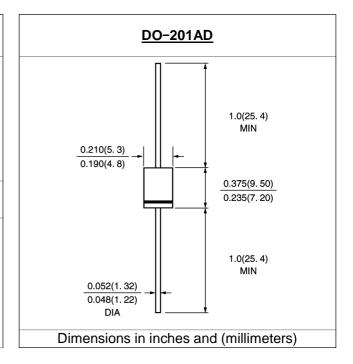
MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Halogen

Free Epoxy

Polarity: color band denotes cathode

Mounting position: any



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

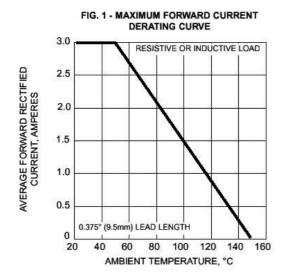
	•	•			,						
	Symbol	UF5 400- E	UF5 401- E	UF5 402- E	UF5 403- E	UF5 404- E	UF5 405- E	UF5 406- E	UF5 407- E	UF5 408- E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	210	280	350	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =55°C	If(av)	3.0									А
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	150.0									А
Maximum Instantaneous Forward Voltage at Rated forward current	Vf	1.0 1.7						.7		V	
Maximum DC Reverse Current $Ta = 25^{\circ}C$ At rated DC blocking voltage $Ta = 125^{\circ}C$	Ir	10.0 100.0									μA
Maximum Reverse Recovery Time (Note 1)	Trr	50					75				nS
Typical Junction Capacitance (Note 2)	Cj	45.0					36.0				pF
Typical Thermal Resistance (Note 3)	Rth(ja) Rth(jl)	20.0 8.5								°C/W	
Storage and Operating Junction Temperature	Tstg, Tj	-55 to +150								ς.	
	L										

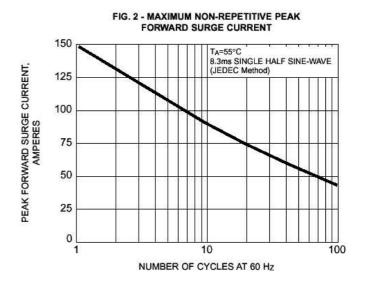
### Note:

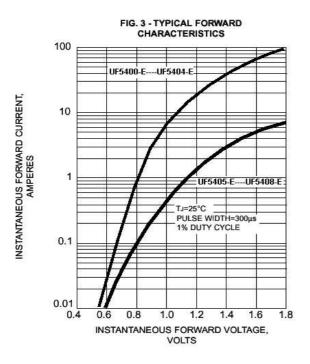
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient and Junction to Lead with 3/8" lead length, both leads attached to heatsink

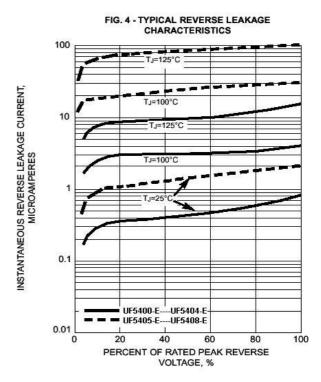
Rev.A1 www.gulfsemi.com

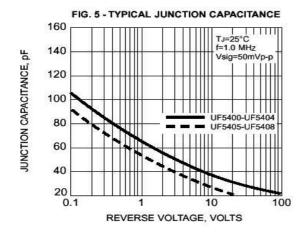
## RATINGS AND CHARACTERISTIC CURVES UF5400-E THRU UF5408-E











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