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• 0912-5958431

• 0912-5958432



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مایترونیک

فروشگاه قطعات الکترونیک

تخصص، کیفیت، قیمت مناسب

تهران - خیابان جمهوری - نرسیده به پل حافظ - پاساژ توکل - طبقه زیر همکف - پلاک B34



ULTRA FAST RECTIFIER

UF5400 THRU UF5408

VOLTAGE RANGE
CURRENT

50 to 1000 Volts
3.0Ampere

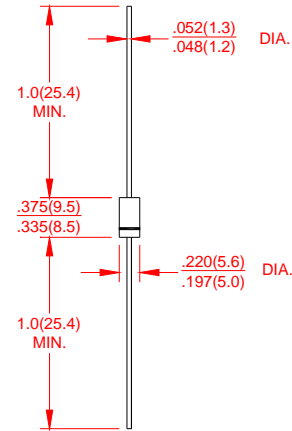
DO-27

FEATURES

- Low coat construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 secods/.375”(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-O rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.042ounce, 1.19 grams



Dimensions in inches and (millimeters)

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 derate current by 20%

	SYMBOLS	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5405	UF 5406	UF 5407	UF 5408	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375”(9.5mm) lead length at $T_A=55^\circ\text{C}$	$I_{(AV)}$	3.0									Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	125									Amps
Maximum Instantaneous Forward Voltage @ 3.0A	V_F	1.0			1.7					Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_A = 25^\circ\text{C}$									μA
		$T_A = 125^\circ\text{C}$									
Maximum Reverse Recovery Time $T_J = 25^\circ\text{C}$ (NOTE 1)	t_{rr}	50			75					ns	
Typical Thermal Resistance (NOTE 2)	C_J	45									PF
Typical Thermal Resistance(NOTE 3)	$R_{\theta JA}$	20									$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_J, T_{STG}	(-55 to +150)									$^\circ\text{C}$

Notes:

- 1 Test Condition:IF=0.5A,IR=1.0A,IRR=0.25A
2. Measured at 1.0 MHz and applied reverse of 4.0 volts.
- 3 Thermal resistance from junction to ambient with .375”(9.5mm)lead length, P.C.B. mounted. .

RATING AND CHARACTERISTIC CURVES UF5400 THRU UF5408

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

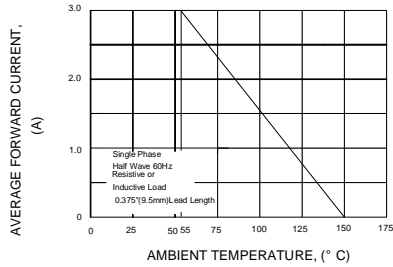


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

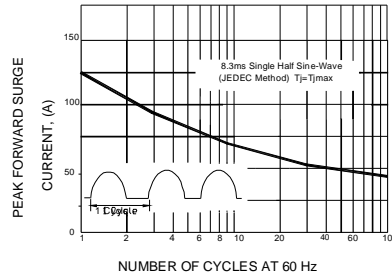


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

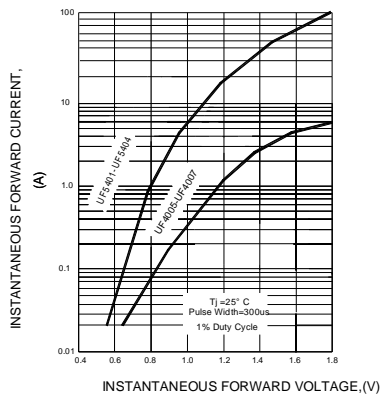


FIG.4-TYPICAL REVERSE CHARACTERISTICS

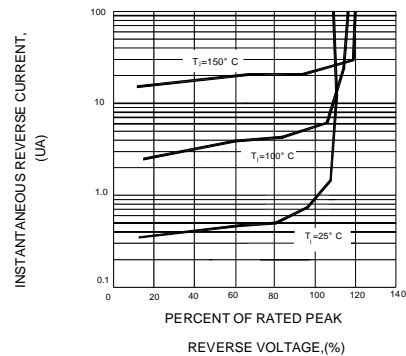


FIG.5-TYPICAL JUNCTION CAPACITANCE

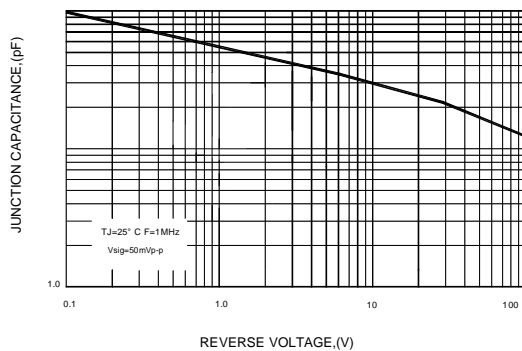


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

