

CGRTS4001-HF Thru. CGRTS4007-HF

Reverse Voltage: 50 to 1000 Volts

Forward Current: 1.0 Amp

RoHS Device Halogen Free



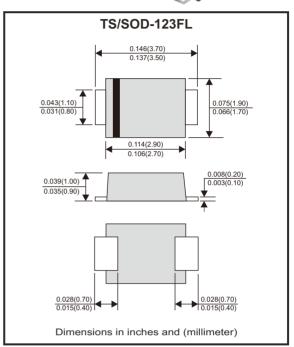
Features

QW-A3G02

- Ideal for surface mount applications
- Easy pick and place
- Low leakage current
- Meets MSL Level 1, per J-STD-020, LF maximum peak of 260°C

Mechanical data

- Epoxy: UL94V-0 rated flame retardant
- Case: Molded plastic, SOD-123FL
- Terminals: Solderable per MIL-STD-750, method 2026
- Polarity: Indicated by cathode band
- Weight: 0.014 grams approx.



Circuit diagram

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Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter			CGRTS						11	
		Symbol	4001-HF	4002-HF	4003-HF	4004-HF	4005-HF	4006-HF	4007-HF	Unit
Maximum repetitive peak reverse voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum DC blocking voltage		VDC	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum averaged forward current		lo	1.0							А
Maximum Instantaneous forward voltage I⊧=1.0A @ 25°C		VF	1.0							٧
Non-repetitive forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		Ігѕм	30							А
Reverse current at rated @T _J =25°C			10							
DC blocking voltage	@T _J =100°C	l _R	50							μΑ
Typical thermal resistance, Junction to ambient (Note1)		Røja	75							°C/W
Operating junction temperature		TJ	-55 to +150						°C	
Storage temperature range		Тѕтѕ	-55 to +150						°C	
Typical junction capacitance f=1MHz and applied 4V DC reverse voltage		Cı	6					pF		

Notes: 1. Thermal resistance from junction to ambient on FR4 PC board , 1"x1", 2 oz. Copper pad areas.

Company reserves the right to improve product design, functions and reliability without notice.

SMD General Purpose Rectifiers



Rating and Characteristic Curves (CGRTS4001-HF Thru. CGRTS4007-HF)

Fig.1 - Typical Current Derating Curve

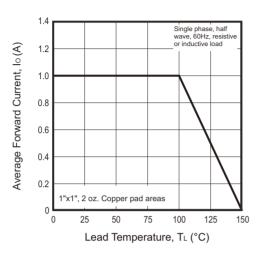


Fig.3 - Non-repetitive Forward Surge Current

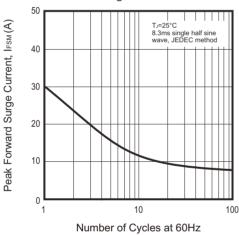


Fig.5 - Typical Junction Capacitance

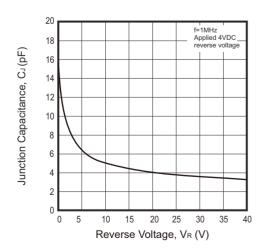


Fig.2 - Typical Forward Characteristics

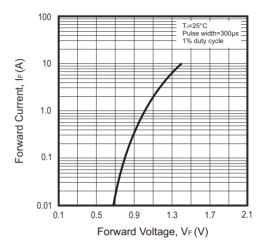
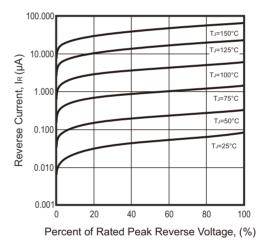


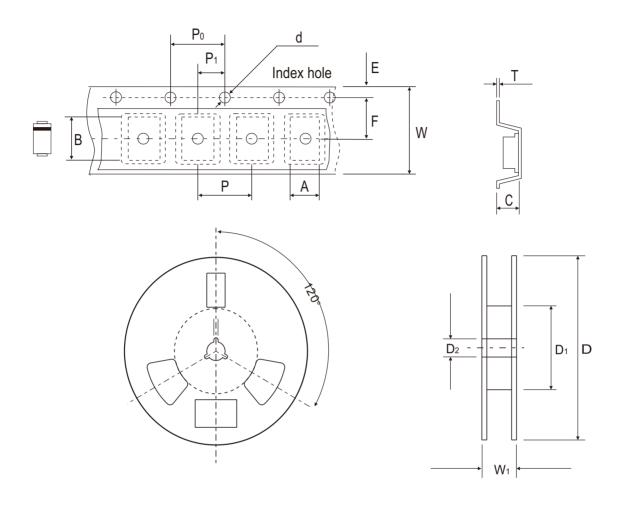
Fig.4 - Typical Reverse Characteristics

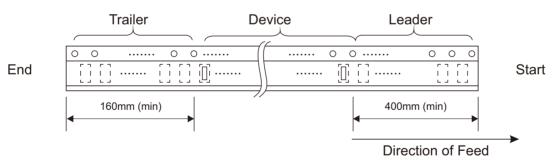


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Reel Taping Specification





	SYMBOL	Α	В	С	d	D	D ₁	D ₂
TS/SOD-123FL	(mm)	1.95 ± 0.10	3.85 ± 0.10	1.25 ± 0.10	1.55 ± 0.05	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.077 ± 0.004	0.152 ± 0.004	0.049 ± 0.004	0.061 ± 0.002	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

	SYMBOL	Е	F	Р	P₀	P 1	Т	W	W ₁
TS/SOD-123FL	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.20 ± 0.05	8.00 ± 0.30	12.00 + 0.50 - 0
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.008 ± 0.002	0.315 ± 0.012	0.472 + 0.020 - 0

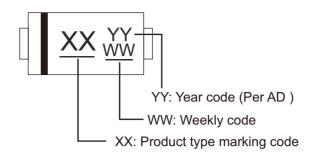
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SMD General Purpose Rectifiers



Marking Code

Part Number	Marking Code
CGRTS4001-HF	A1
CGRTS4002-HF	A2
CGRTS4003-HF	А3
CGRTS4004-HF	A4
CGRTS4005-HF	A5
CGRTS4006-HF	A6
CGRTS4007-HF	A7



- Year Code: The last two number, AD 2017=17
- Weekly Code: 01~xx(The fast week~final week)

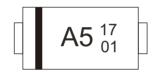
Product code printed

For example as follows:

P/N: CGRTS4005-HF

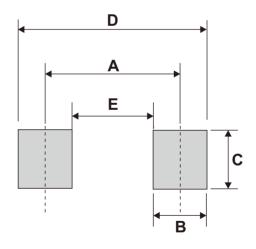
Manufacture date_Year: 2017 / Weekly:01

Product code printed:



Suggested PAD Layout

SIZE	TS/SOD-123F				
OIZL	(mm)	(inch)			
Α	3.10	0.122			
В	1.15	0.045			
С	1.25	0.048			
D	4.25	0.167			
E	1.95	0.077			



Standard Packaging

	REEL PACK				
Case Type	REEL (pcs)	Reel Size (inch)			
TS/SOD-123FL	3,000	7			

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ACGRB207-HF CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 NTE6002 NTE6023 NTE6039 NTE6077

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