

Surface Mount Fast Rectifiers

Features

- · Glass passivated device
- · Ideal for surface mouted applications
- · Low leakage current
- · Metallurgically bonded construction
- High temperature soldering:
- 250°C/10 seconds at terminals
- · RoHS compliant package

Mechanical Data

· Case: SOD-123 Molded plastic

· Epoxy: UL94V-O rate flame retardant

· Lead: Lead Formed for Surface Mount

· Polarity: Color band denotes cathode end

· Mounting position: Any

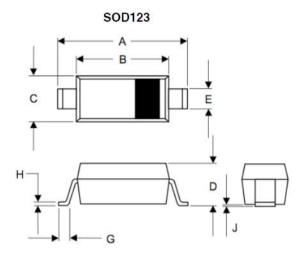
Package type: SOD-123

Packing & Order Information

3.000/Reel







		DIME	NSIONS		
DIM	INCHES		N	NOTE	
	MIN	MAX	MIN	MAX	ŝ.
Α	.140	.152	3.55	3.85	
В	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	ļ
D		.053		1.35	
E	.012	.031	0.30	.78	
G	.006		0.15		
Н		.01	*****	.25	Ÿ
J		.006		.15	

Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specifie. Single phase, half wave, 60 Hz, resistive or inductive load For capacitive load, derate current by 20% RS RS RS RS RS RS Unit 07K 07M 07B 07D 07G 07JDevice marking code RBRD RG RJRK RMMaximum Recurrent Peak Reverse Voltage V_{RRM} 100 200 400 600 800 1000 V 700 70 140 280 420 560 V V_{RMS} Maximum RMS Voltage 400 100 200 600 800 1000 V Maximum DC Blocking Voltage V_{DC} Maximum average forward rectified current 0.7 Α I_{F(AV)} TA=65 °C (Note 1)



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Single phase, half wave, 60 Hz, resistive or inductive load									
For capacitive load, derate current by 20%									
		RS 07B	RS 07D	RS 07G	RS 07J	RS 07K	RS 07M	Unit	
Device marking code		RB	RD	RG	RJ	RK	RM		
Peak forward surge current 8.3ms single									
half-sine-w ave superimposed on rated load IFSM		20						A	
TL=25 °C									
Typical thermal resistance (Note 2)	R _{θJ A}		180					K/W	
Maximum reverse recovery time (Note 3)	Trr		150		250	500		ns	
Operating Temperature Range	TJ	-55 to +150				°C			
Storage Temperature Range	T _J ,T _{STG}	-55 to +150			°C				

NOTES

- 1. Averaged over any 20 ms period.
- 2. Thermal resistance junction to ambient, 6.0 mm 2 coppeer pads to each terminal.
- 3.Measured with IF=0.5A, IR=1A, Irr=0.25A

ELECTRICAL CHARACTERISTICS						
Symbol	Parameter	Min	Тур	Max	Unit	
V_{F}	Maximum instantaneous (NOTE4) Forward voltage at 0.7A			1.15	V	
I_R	Maximum DC reverse current @TA=25°C At rated DC blocking voltage @TA=125°C			10 50	V	
Cj	Typical junction capacitance (NOTE5)		4		A	

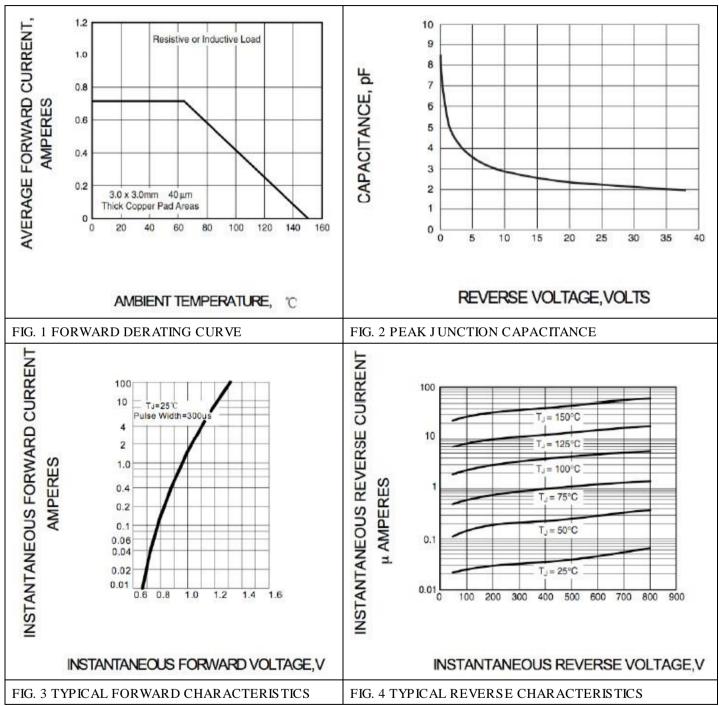
NOTES

- 4. Pulse test: 300 µs pulse width, 1% duty cycle.
- 5. Measured at 1.0 MHz and applied average voltage of 4.0 V DC.



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■RATING AND CHARACTERISTIC CURVES





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