

HI-SINCERITY MICROELECTRONICS CORP.

Spec. No. :HSK200801 Issued Date : 2008.10.28 Revised Date : Page No. : 1/4

HSK07X Series

0.7 AMP. SURFACE MOUNT 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

Mechanical Data

- Case:JEDEC SOD-123FL,molded plastic over passivated chip
- Terminals:Solder Plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end.
- Weight: 0.0008 ounces, 0.022 gram1.
- Mounting position: Any

Maximum Ratings and Electrical Characteristics

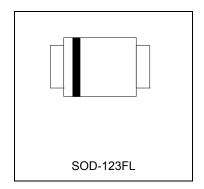
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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		HSK07B	HSK07D	HSK07G	HSK07J	HSK07K	HSK07M	UNITS	
Device marking code		RB	RD	RG	RJ	RK	RM		
Maximum recurrent peak reverse voltage	V_{RRM}	100	200	400	600	800	1000	V	
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V	
Maximum DC blocking voltage	V_{DC}	100	200	400	600	800	1000	V	
Maximum average forword rectified current TA=65℃(NOTE 1)	I _(AV)	0.7							
on rated load TL=25°C Peak forward surge current 8.3ms single half-sine-wave superimposed	I _{FSM}	20							
Typical thermal resistance (NOTE 2)	$R_{j\thetaA}$	180							
Maximum reverse recovery time (NOTE 3)	t _{rr}	150			250	500		ns	
Operating temperature range	Tj	-205						°C	
Storage temperature range	T_{STG}	-205							

Note1: Averaged over any 20 ms period.

Note2 Thermal resistance junction to ambient, 6.0 mm² coppeer pads to each terminal.

Note3:.Measured with IF=0.5A, IR=1A, Irr=0.25A.





ELECTRICAL CHARACTERISTICS

Parameter		Min	Тур.	Max.	Unit
forward voltage at 0.7A Maximum instantaneous (NOTE 4)		-	-	1.15	V
Maximum DC reverse current @TA=25 $^{\circ}$ C at rated DC blockjing voltage @TA=125 $^{\circ}$ C				50 10	μA
Typical junction capacitance (NOTE 5)		-	4	-	pF

NOTES: 4.Pulse test:300µs pulse width,1% duty cycle.

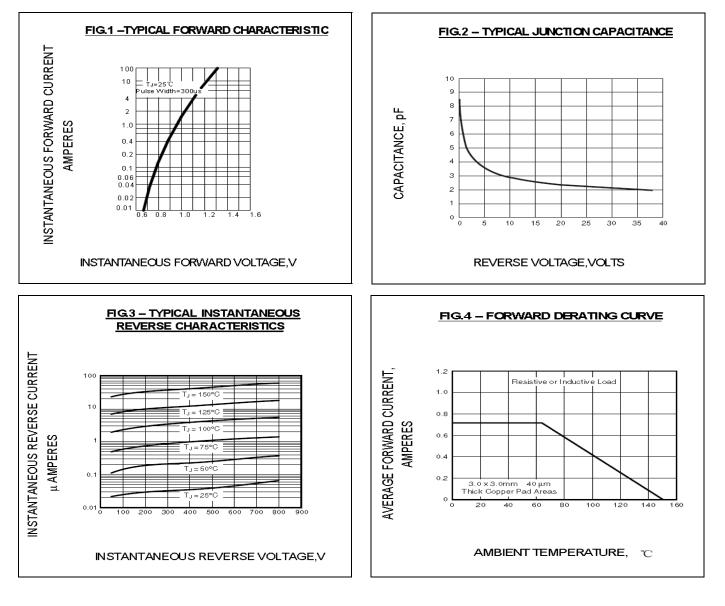
5.Measured at 1.0MHz and applied average voltage of 4.0V DC.





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Characteristics Curve

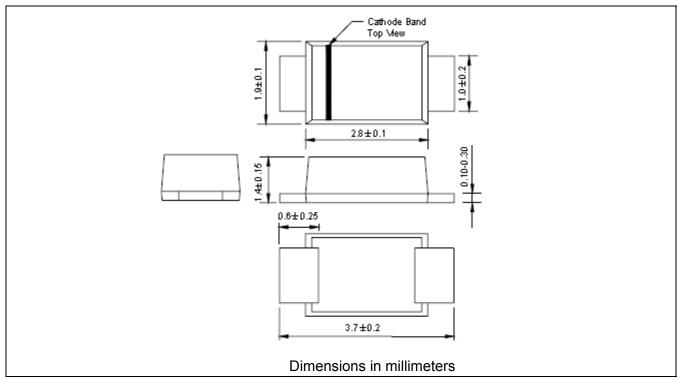






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SOD-123FL Dimension



*:Typical

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Head Office And Factory :

• Head Office (Hi-Sincerity Microelectronics Corp.) : 10F.,No. 61, Sec. 2, Chung-Shan N. Rd. Taipei Taiwan R.O.C. Tel : 886-2-25212056 Fax : 886-2-25632712, 25368454