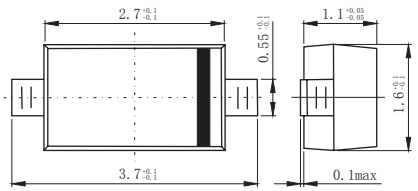
PRODUCT DATA SHEET

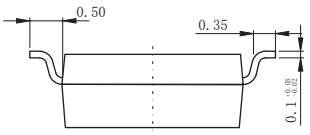
To learn more about JGSEMI, please visit our website at

Datasheet Resources Samples

Please note: Please check the JINGAO Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.jg-semi.cn. Please email any questions regarding the system integration to JINGAO_questions@jgsemi.com.

SOD-123 Unit: mm





■ Features

- Forward Voltage : V_F=0.365V (TYP.)
- Forward Current : $I_{F(AV)}$=1A
- Repetitive Peak Reverse Voltage : V_{RM}=40V

PIN 1. CATHODE
2. ANODE

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	40	V
DC Blocking Voltage	V_R	40	
DC Forward Current	$I_{F(AV)}$	1	A
Peak forward surge current (Note.1)	I_{FSM}	20	
Junction Temperature	T_J	125	℃
Storage temperature range	T_{stg}	-55 to 150	

Note.1:Non continuous high amplitude 60Hz half-sine wave.

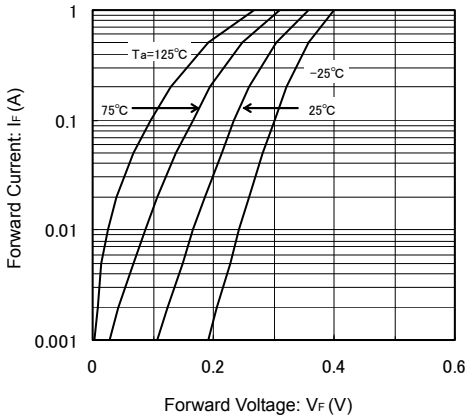
■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_{RM}	I_R= 100 uA	40			V
Forward voltage	V_F	I_F= 100m A		230	315	mV
		I_F= 500mA		300	385	
		I_F= 1 A		365	410	
Reverse voltage leakage current	I_R	V_R= 40 V		0.25	2	mA
Junction capacitance	C_j	V_R= 1V, f= 1 MHz		150		pF
Reverse Recovery Time (Note.2)	trr	I_F=I_R=10mA , irr=1mA		41		ns

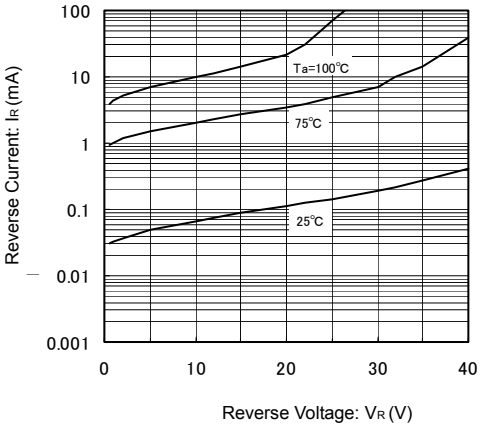
Note.2: trr measurement circuit.

■ Typical Characterisitics

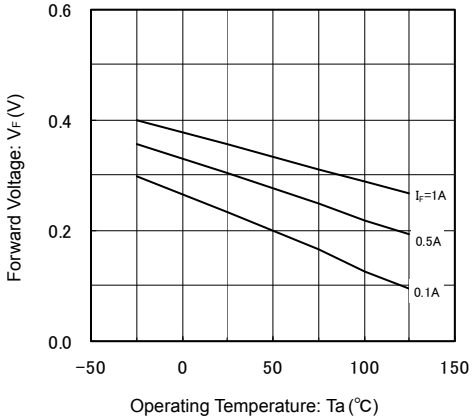
(1) Forward Current vs. Forward Voltage



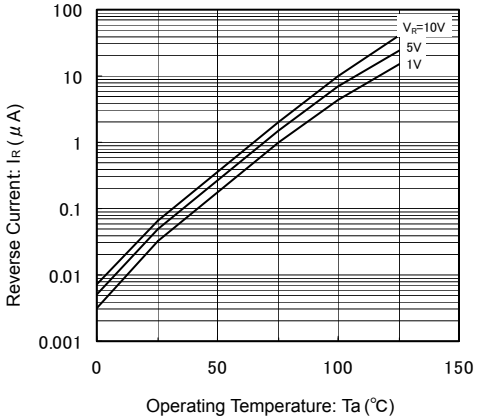
(2) Reverse Current vs. Reverse Voltage



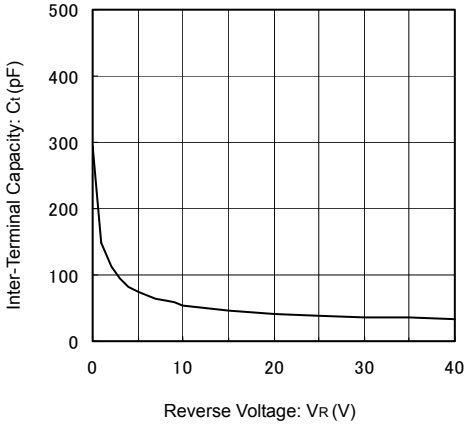
(3) Forward Voltage vs. Operating Temperature



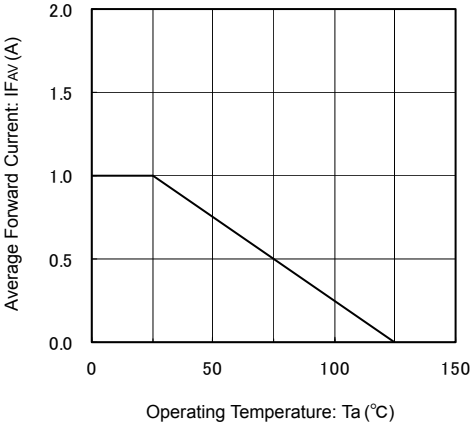
(4) Reverse Current vs. Operating Temperature



(5) Inter-Terminal Capacity vs. Reverse Voltage



(6) Average Forward Current vs. Operating Temperature



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