



PRODUCT DATA SHEET



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Datasheet

ces Sami

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.

Schottky Barrier Diode

Features

- Low forward voltage
- Thin & leadless package for space saving
- Pb free version, RoHS compliant,
 and Halogen free



Mechanical Characteristics

- Case: DFN1006(0402) mold package
- Terminal: Sn/Au plated, solderable per

MIL-STD-750, method 2026

Marking: cathode band & BP

■ Weight: 0.001 gram(approx.)

DFN1006(0402)



Maximum Rating And Electrical Characteristics (at Ta=25℃ unless otherwise noted)

Parameter	Condition	Symbol	Min	Тур	Max	Unit
Repetitive peak reverse voltage		VRRM			40	V
Reverse voltage		VR			40	V
Average forward current		lo			100	mA
Forward current surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	IFSM			1	А
Storage/Operation temperature		T_{Sgt}	-40		125	°C
Junction temperature		TJ			125	°C
Forward voltage	IF1=10mA IF2=20mA IF3=100mA	VF			0.29 0.30 0.40	V
Reverse current	VR=30V	IR			30	uA



Typical Characteristics

Fig.1-forward characteristics

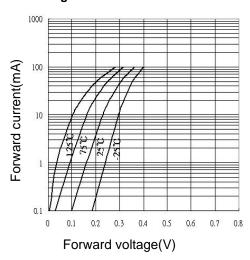


Fig.3 - Capacitance between terminals characteristics

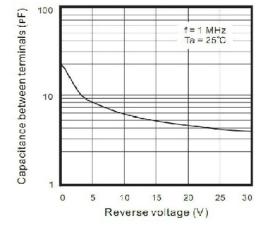


Fig. 5 - VF Dispersion map

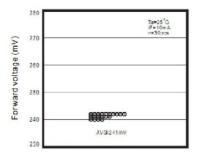


Fig. 6 - IR Dispersion map

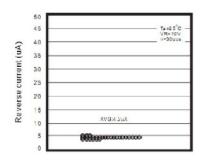


Fig.2-Reverse characteristics

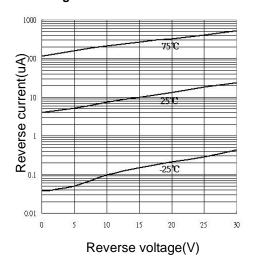


Fig.4 - Current derating curve

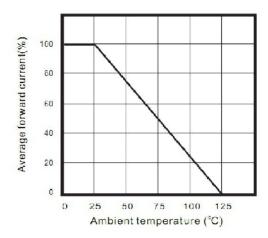
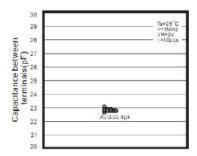


Fig. 7 - CT Dispersion map





Packing Specification

1.05 (0.041) 0.95 (0.037) 0.65 (0.026) 0.55 (0.022) 0.45 (0.018)

DFN1006(0402)



Dimensions in millimeter and (inches)

Tape & Reel Dimensions

	Package	Unit	Α	В	С	d	D
	DENIAGOS	mm	0.67±0.10	1.12±0.10	0.60±0.10	1.50±0.10	178±1
DFN1006	inch	0.026±0.004	0.044±0.004	0.024±0.004	0.060±0.004	7.008±0.04	

Package	Unit	D1	D2	E	F	Р
DFN1006	mm	60MIN	13.0±0.20	1.75±0.10	3.5±0.10	4.0±0.10
	inch	2.362MIN	0.512±0.008	0.069±0.004	0.138±0.004	0.157±0.004

Package	Unit	Р0	P1	Т	W	W1
DFN1006	mm	4.0±0.10	2.0±0.10	0.22+0.03	8.0±0.10	13.5MAX
	inch	0.157±0.004	0.079±0.004	0.009±0.002	0.315±0.004	0.531MAX



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