

Schottky Barrier Diode

Reverse Voltage - 40 Volts
Forward Current - 100 mAmperes

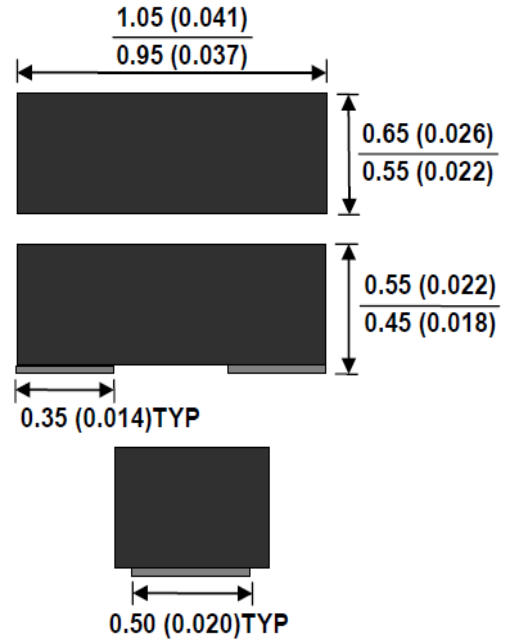
Features

- Low forward voltage
- Designed for mounting on small surface
- Extremely thin / leadless package.
- Majority carrier conduction.
- Pb free version, RoHS compliant, and Halogen free

Mechanical Data

- Case: DFN1006(0402) mold package
- Terminal: Sn/Au plated, solderable per MIL-STD-750, method 2026
- Marking: cathode band & B8
- Mounting position: Any.

DFN1006(0402)



Package Outline Dimensions in Millimeters (Inches)

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%.

Characteristics	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage	V _{RRM}			43	V
Reverse voltage	V _R			40	V
Average forward current	I _o			100	mA
Forward voltage I _{F1} =10mA	V _F			0.34	V
I _{F2} =100mA				0.55	
Reverse current, V _{R1} =10V	I _R			10	µA
V _{R2} =40V				40	
Forward current surge peak, 8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			1	A
Power Dissipation	P _D			125	mW
Capacitance between terminals, f = 1 MHz, and 10 VDC reverse voltage	C _T		6		pF
Storage/Operation temperature	T _{Sgt}	-40		125	°C
Junction temperature	T _J			125	°C

Fig. 1 - Forward characteristics

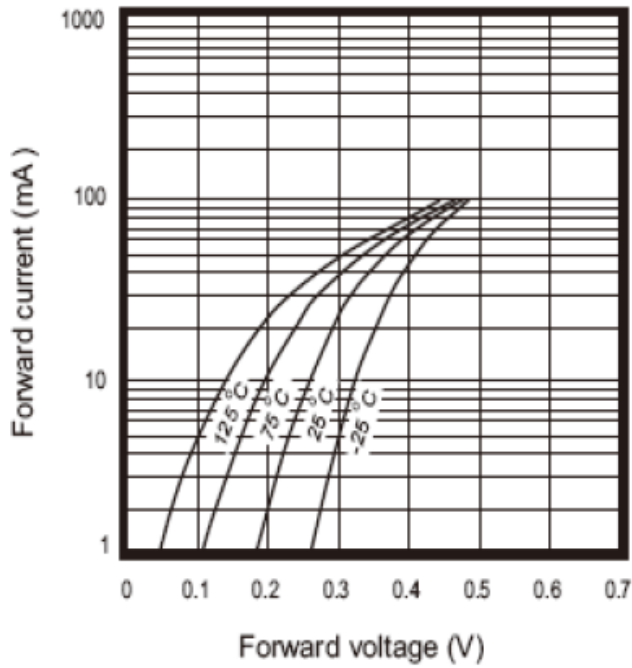


Fig. 2 - Reverse characteristics

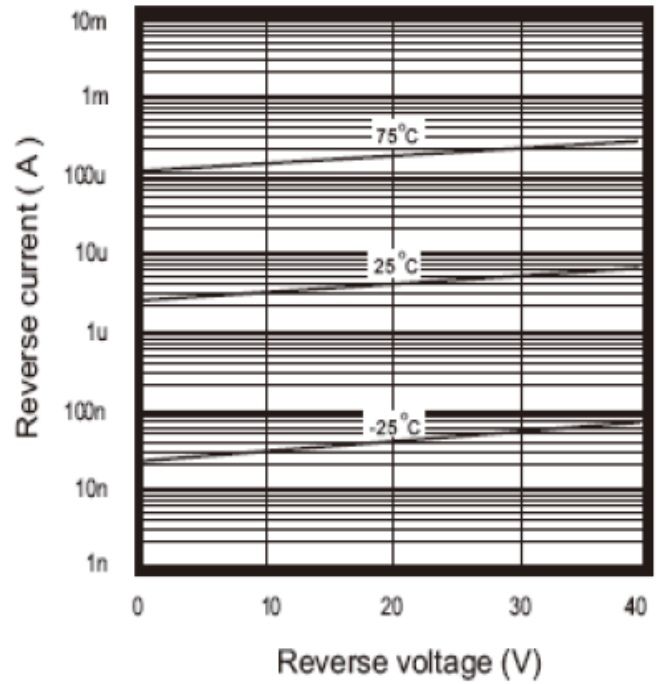


Fig. 3 - Capacitance between terminals characteristics

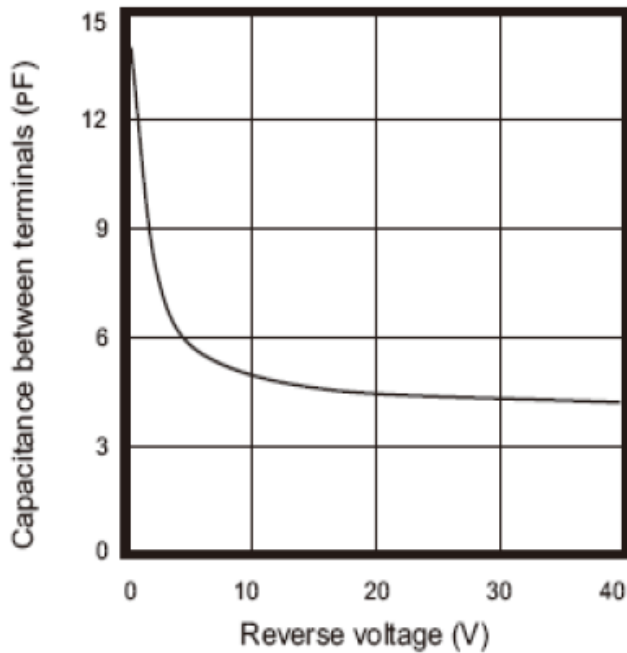
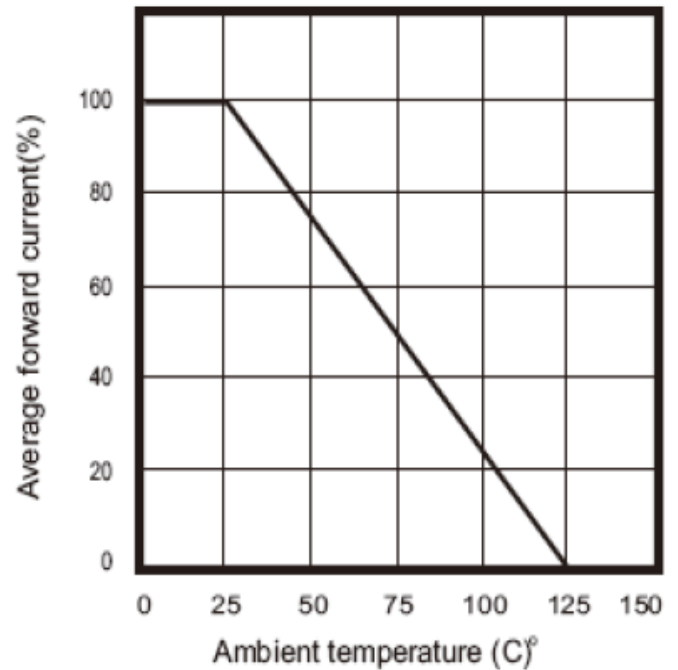


Fig.4 - Current derating curve



The curve above is for reference only.

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