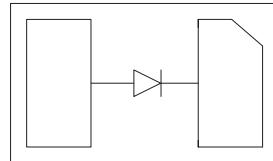


»Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction



»General Description

- Case: molded plastic
- Package: DFN1610-2L Plastic Package

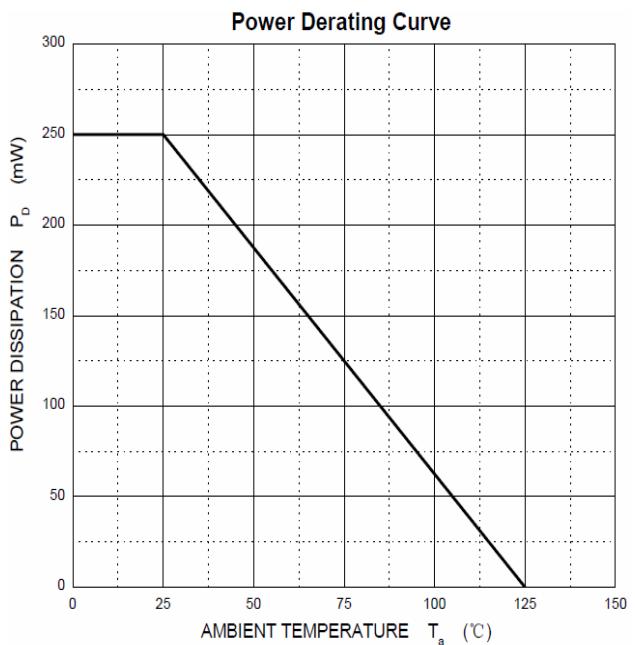
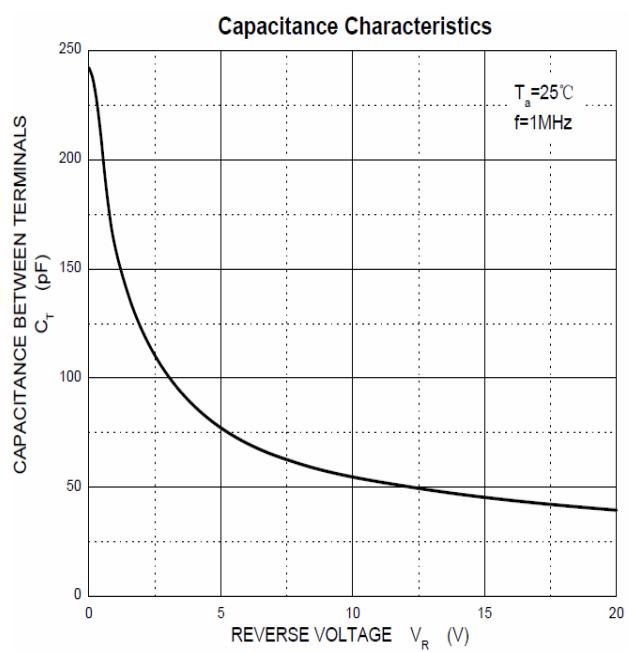
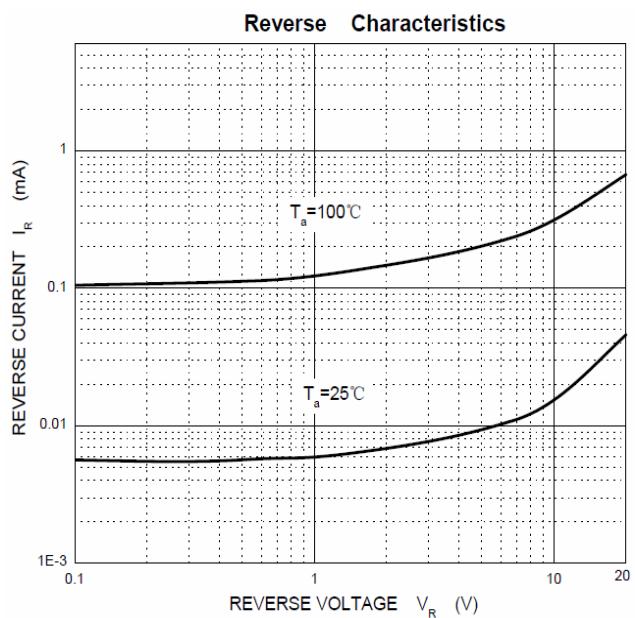
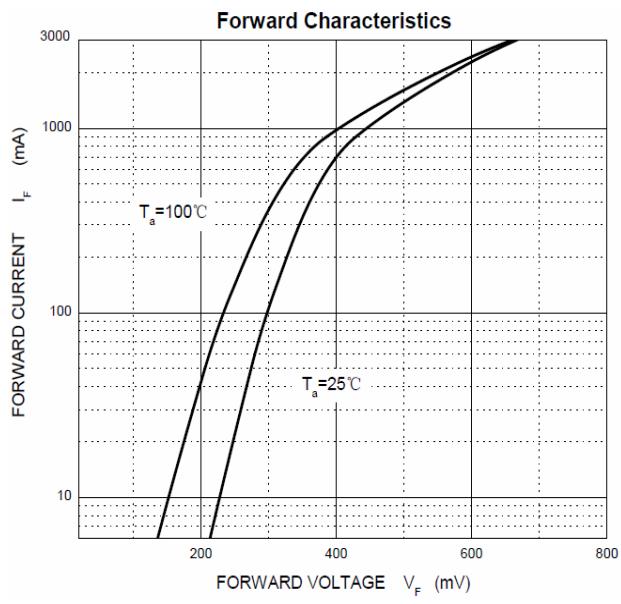
» Maximum Ratings @ $T_A=25^\circ\text{C}$ unless otherwise noted

Parameters	Symbol	BN5A1V40	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	40	V
Maximum RMS voltage	V _{RMS}	28	V
Maximum DC blocking voltage	V _{DC}	40	V
Maximum average forward rectified current	I _{FM}	1.0	A
Peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	9.0	A
Power Dissipation	P _D	250	mW
Typical thermal resistance	R _{θJA}	400	°C/W
Operating junction temperature	T _j	125	°C
Storage temperature range	T _{STG}	-50-+150	°C

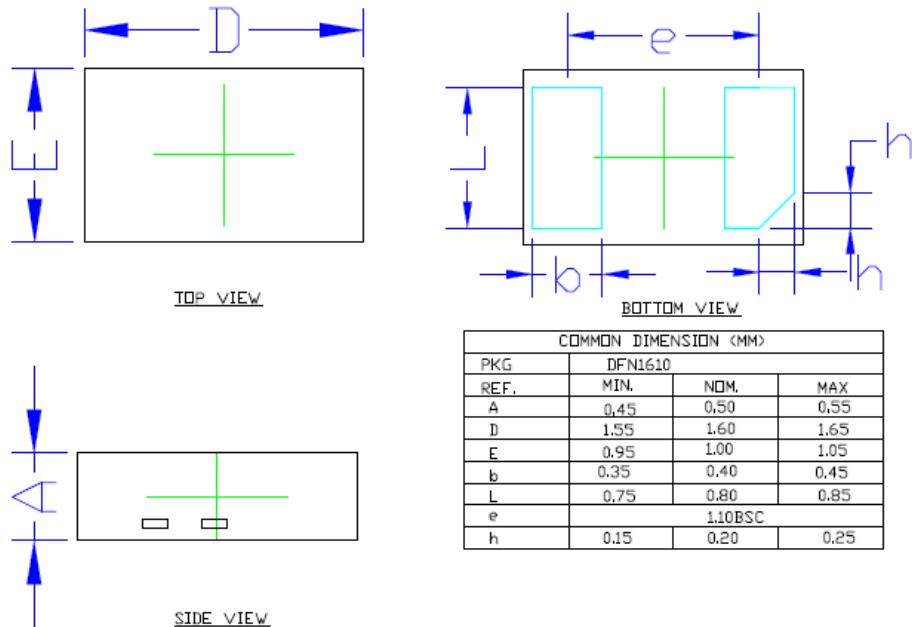
»**Electrical Characteristics** @ $T_A=25^\circ\text{C}$ unless otherwise noted

Parameters	Symbol	Test conditions	BN5A1V40	Unit
Maximum forward voltage	VF	IF = 1.0A	0.6	V
Maximum reverse breakdown voltage	VR	IR=1mA	40	V
Maximum reverse current	IR	VR=40V	100	uA
Type junction capacitance	C _j	VR =4V, f = 1MHz	120	pF
Reverse recovery time	T _{rr}	IF=IR=10mA, I _{rr} =0.1xIR,RL=100 Ω	15	ns

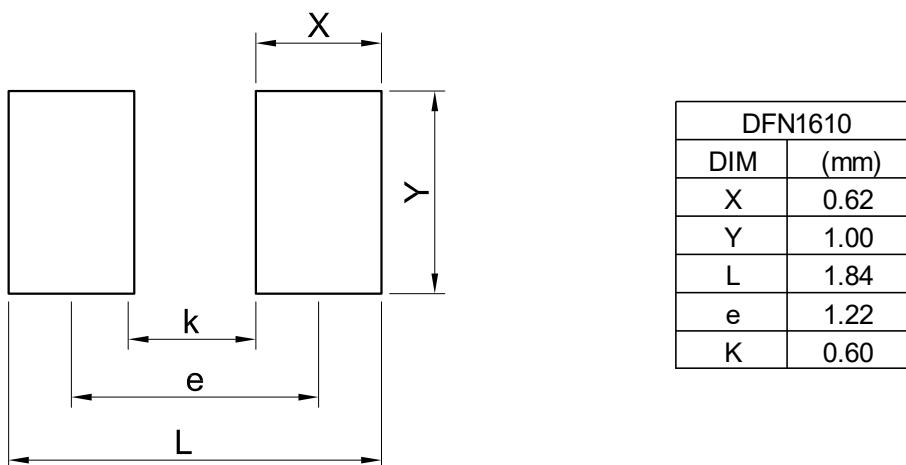
»**Typical Performance Characteristics** ((T_J = 25 °C, unless otherwise noted))



»Package Information



»Layout Information



»Ordering information

Order code	Package	Marking	Base qty	Delivery mode
BN5A1V40	DFN1610-2L	1V40	10K	Tape and reel