

### »Features

- Low Forward Voltage
- Extremely Fast Switching Speed
- Surface Mount Pack age Ideally Suited for Automatic Insertion Protection



DFN1006

### »Mechanical Data

- DFN1006 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

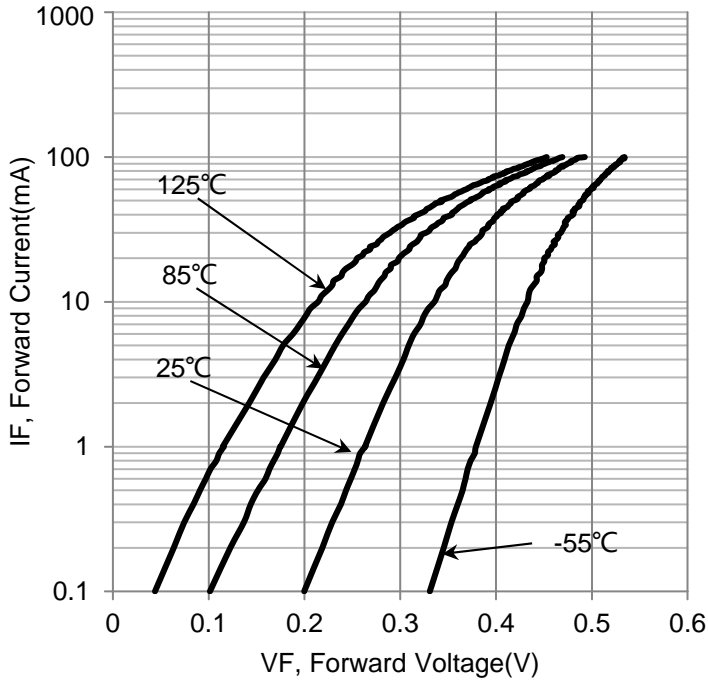
### »Absolute Maximum Rating

Rating	Symbol	Value	Units
Reverse Voltage	$V_R$	40	V
Total Device Dissipation	PD	150	mW
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	400	$^{\circ}C/W$
Lead Soldering Temperature	$T_L$	260(10seconds)	$^{\circ}C$
Junction Temperature	$T_J$	110	$^{\circ}C$
Storage Temperature	$T_{stg}$	-40 to + 150	$^{\circ}C$

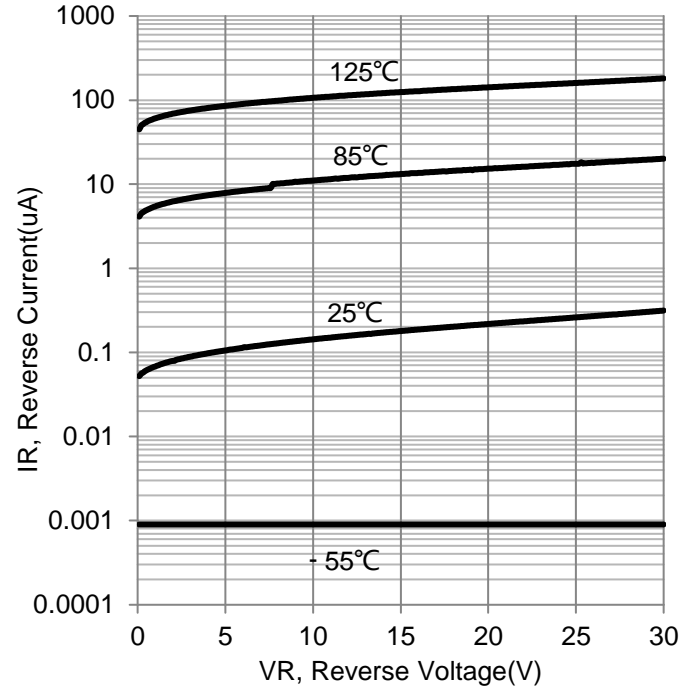
### »Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Breakdown Voltage	$V_{BR}$	$I_T=10\mu A$	40			V
Diode Capacitance	$C_j$	$V_R = 1.0V, f = 1MHz$		75		pF
Reverse Leakage Current	$I_R$	$V_R=10V, T=25^{\circ}C$			30	$\mu A$
Forward Voltage	$V_F$	$I_F = 1\text{ mA}$ $I_F = 20\text{ mA}$ $I_F = 200\text{ mA}$		0.22 0.34 0.65	0.35 0.50 0.70	V
Reverse Recovery Time	$t_{rr}$	$I_F = 10\text{ mA.}$ $I_r=0.1I_R, R_L=100\Omega$			5	ns

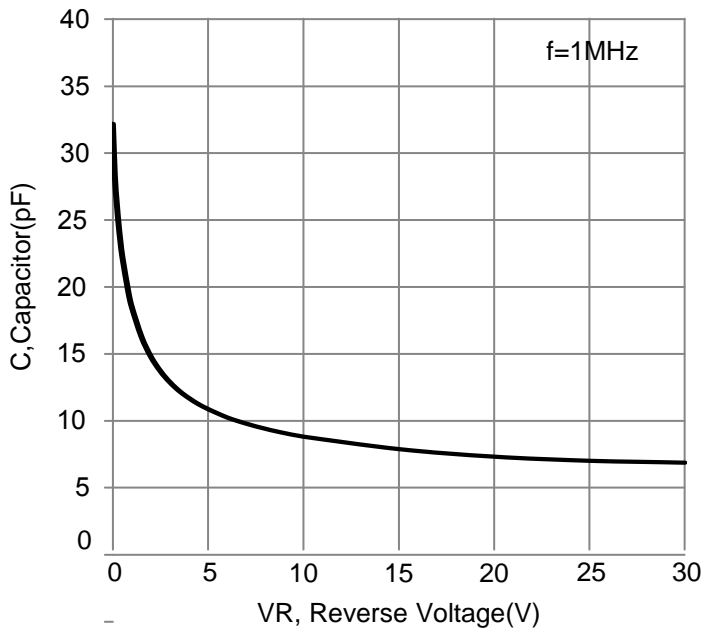
»ELECTRICAL CHARACTERISTICS CURVES



FORWARD CHARACTERISTICS

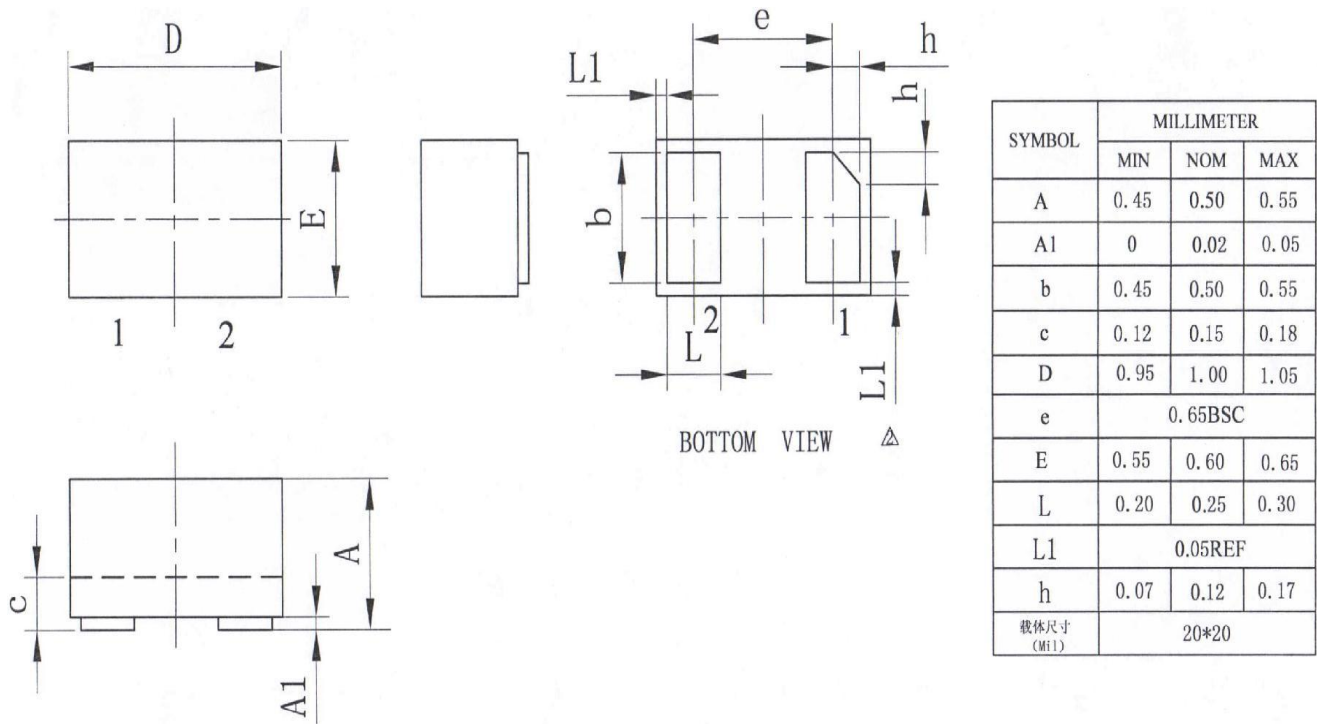


REVERSE CHARACTERISTICS

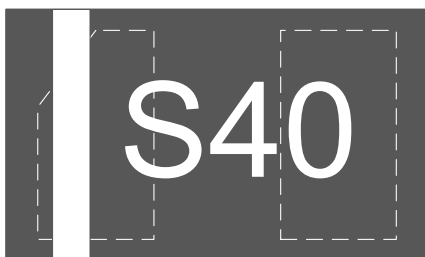


VR-CT CHARACTERISTICS

»Outline Drawing – DFN1006



»Marking



»Ordering information

Order code	Package	Base qty	Delivery mode
BSK1401	DFN1006	10K	Tape and reel