

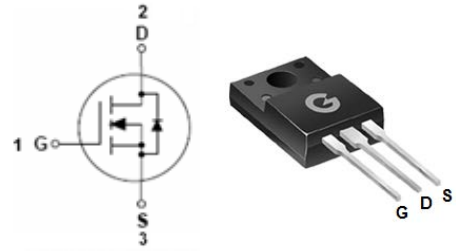
### Features

- Ultra low gate charge
- Fast switching capability
- Avalanche energy specified

HF

### Mechanical Data

- Case: ITO-220AB
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



ITO-220AB

### Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
BL8N70F	ITO-220AB	50pcs / Tube	8N70F

### Maximum Ratings

(@  $T_A = 25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Value	Unit
Drain-to-Source Voltage	$V_{DSS}$	700	V
Gate-to-Source Voltage	$V_{GSS}$	$\pm 30$	V
Continuous Drain Current ( $T_C = 25^\circ\text{C}$ )	$I_D$	8	A
Continuous Drain Current ( $T_C = 100^\circ\text{C}$ )		5	A
Pulsed Drain Current *1	$I_{DM}$	32	A

### Thermal Characteristics

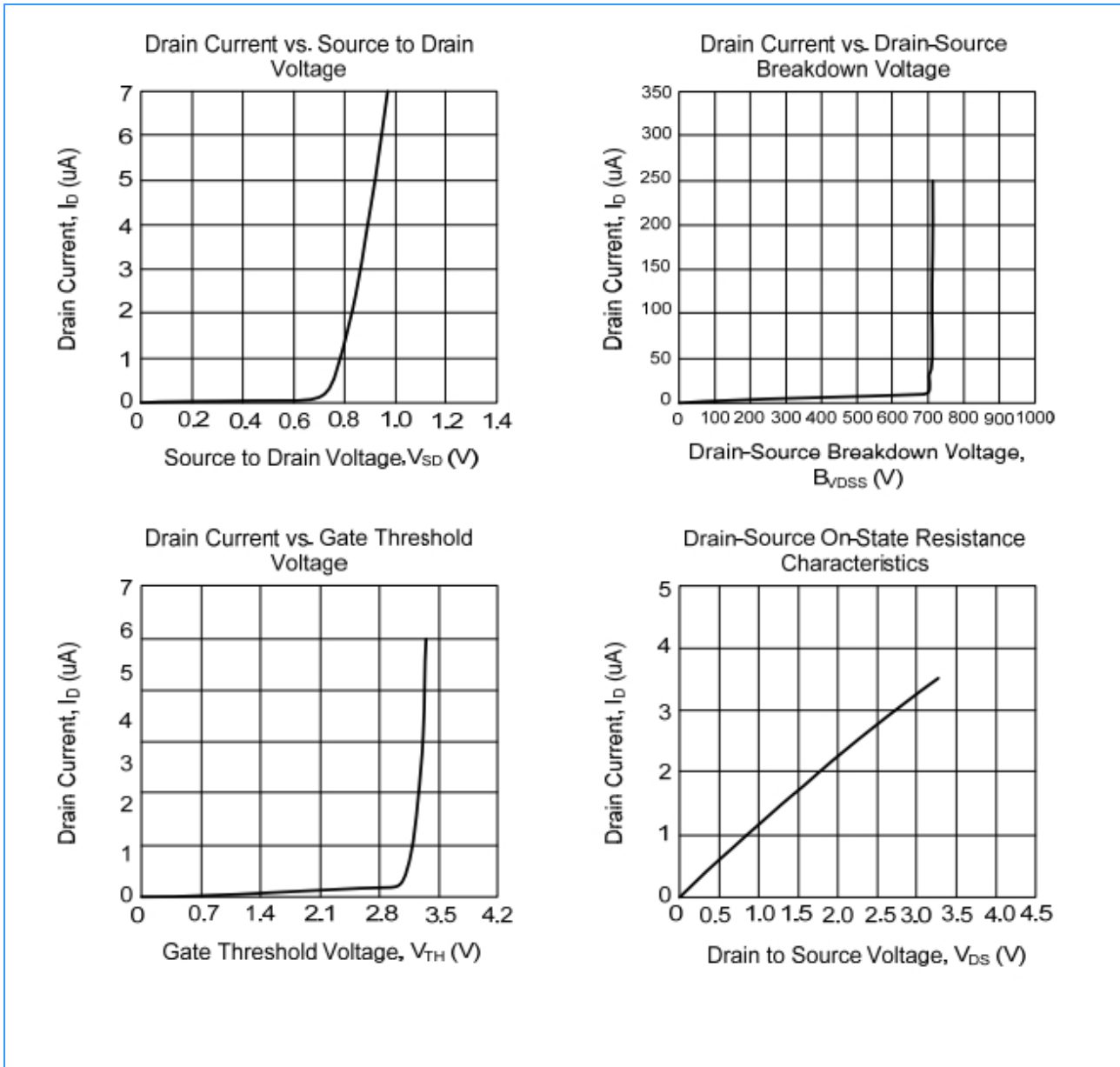
Parameter	Symbol	Value	Unit
Operating Junction Temperature Range	$T_J$	-55 ~ +150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 ~ +150	$^\circ\text{C}$

### Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

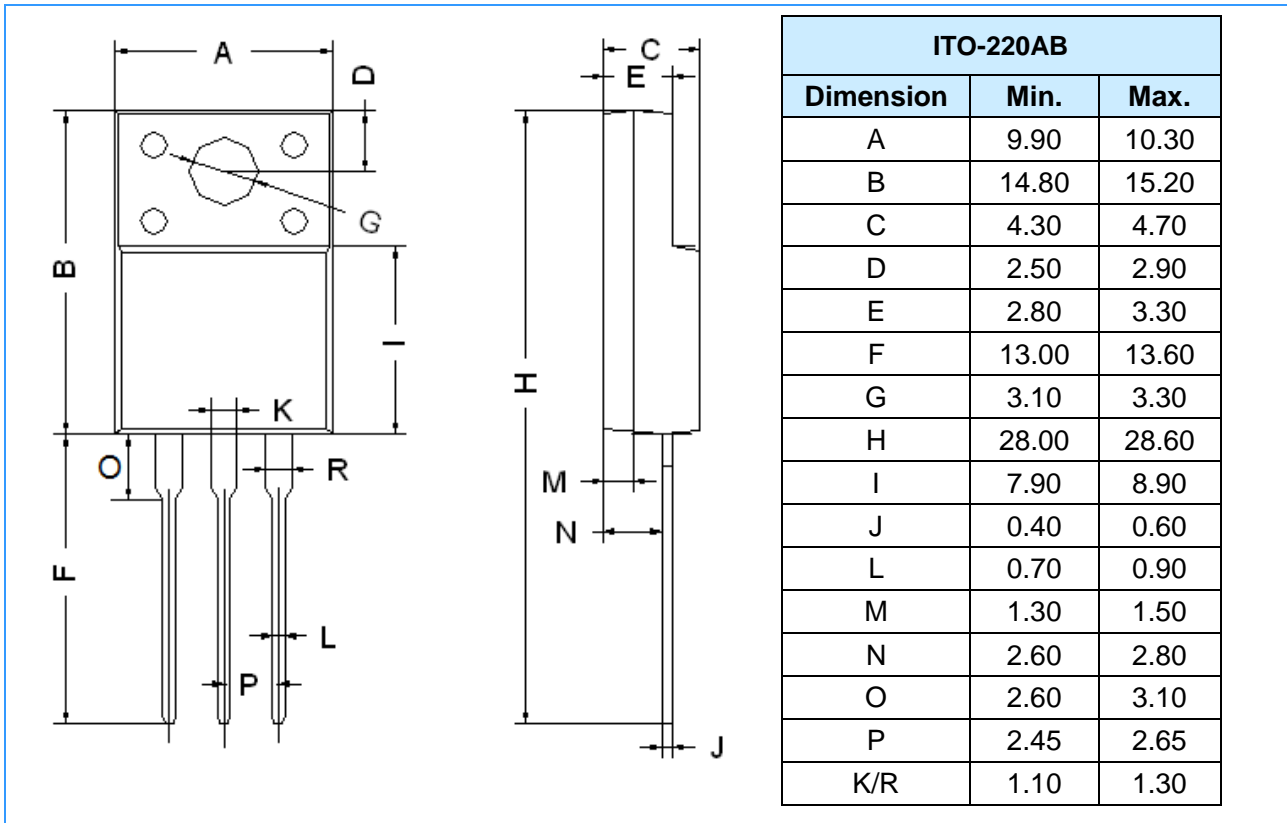
Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
<b>Static Characteristics</b>						
$V_{DSS}$	Drain-Source Breakdown Voltage	$V_{GS} = 0V, I_D = 250\mu A$	700	-	-	V
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS} = 700V, V_{GS} = 0V$	-	-	10	$\mu A$
$I_{GSS}$	Gate-Body Leakage Current	$V_{GS} = \pm 30V, V_{DS} = 0V$	-	-	$\pm 100$	nA
<b>On Characteristics</b>						
$R_{DS(ON)}$	Static Drain-Source On-resistance *1	$V_{GS} = 10V, I_D = 4A$	-	-	1.15	$\Omega$
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS} = V_{GS}, I_D = 250\mu A$	2	-	4	V
<b>Dynamic Characteristics</b>						
$C_{ISS}$	Input Capacitance	$V_{GS} = 0V$ $V_{DS} = 25V$ $f = 1.0MHz$	-	1556	-	pF
$C_{OSS}$	Output Capacitance		-	115	-	
$C_{RSS}$	Reverse Transfer Capacitance		-	4.7	-	
<b>Source-Drain Diode Characteristics</b>						
$V_{SD}$	Diode Forward Voltage *1	$I_{SD} = 8A, V_{GS} = 0V$	-	-	1.5	V

Note 1: The data tested by pulsed, pulse width  $\leq 300\mu s$ , duty cycle  $\leq 2\%$

Ratings and Characteristics Curves (@  $T_A = 25^\circ\text{C}$  unless otherwise specified)



Package Outline Dimensions (Unit: mm)



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