

ABSOLUTE MAXIMUM RATINGS

Parameters		E-line	Units
V _{DS}	Drain-source voltage	100	V
I _D	Continuous drain current (@ T _A = 25°C)	0.32	A
I _D	Continuous drain current (@ T _C = 25°C)	-	A
I _{DM}	Pulse drain current	6	A
V _{GS}	Gate-source voltage	± 20	V
P _D	Max. power dissipation (@ T _A = 25°C)	0.7	W
P _D	Max. power dissipation (@ T _C = 25°C)	-	W
T _I , T _{stg}	Operating/storage temperature range	- 55 to + 150 °C	

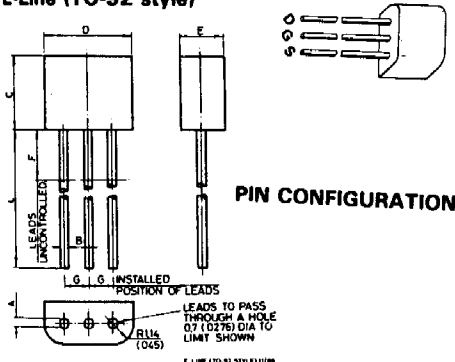
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ELECTRICAL CHARACTERISTICS (at T = 25°C unless otherwise stated)

Parameter	Min.	Typ.	Max.	Unit	Conditions
BV _{DSS}	100	-	-	V	I _D = 1mA, V _{GS} = 0V
V _{GS(th)}	0.8	-	2.4	V	I _D = 1mA, V _{DS} = V _{GS}
I _{GSS}	-	0.1	20	nA	V _{GS} = ± 20V, V _{DS} = 0V
I _{DSS}	-	-	1	μA	V _{DS} = Max. rating, V _{GS} = 0V
			100	μA	V _{DS} = 0.8 × Max. rating, V _{GS} = 0V (T = 125°C) (2)
I _{D(on)}	1.5	2	-	A	V _{DS} = 25V, V _{GS} = 10V
R _{DS(on)}	-	-	4	Ω	I _D = 1A, V _{GS} = 10V
g _{fs}	250	350	-	mS	V _{DS} = 25V, I _D = 1A
C _{iss}	-	59	75	pF	V _{DS} = 25V, V _{GS} = 0V f = 1MHz
C _{oss}	-	16	25	pF	
C _{rss}	-	4	8	pF	
t _{d(on)}	-	4	7	ns	V _{DD} ≈ 25V, I _D = 1A
t _r	-	4	8	ns	
t _{d(off)}	-	8	13	ns	
t _f	-	8	13	ns	

PACKAGE DETAILS

E-Line (TO-92 style)



DIMENSION	MILLIMETRES		INCHES	
	MIN	MAX	MIN	MAX
A	0.41	0.495	0.016	0.0195
B	0.41	0.495	0.016	0.0195
C	3.61	4.01	0.142	0.158
D	4.37	4.77	0.172	0.188
E	2.16	2.41	0.085	0.095
F	-	2.5	-	0.098
G	1.27 NOM		0.050 NOM	
L	12.06	13.97	0.475	0.550