

TECHNICAL DATA DATA SHEET 4335, REV. -

HERMETIC POWER MOSFET N-CHANNEL

FEATURES:

- 200 Volt, 0.045 Ohm, 50A MOSFET
- Isolated Hermetic Metal Package
- Low R_{DS (on)}

MAXIMUM RATINGS

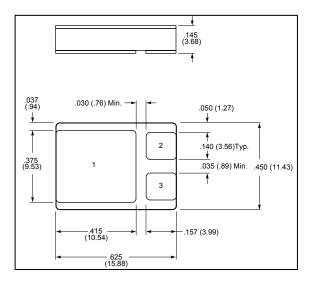
ALL RATINGS ARE AT T_c = 25°C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MIN.	TYP.	MAX.	UNITS
GATE TO SOURCE VOLTAGE	V _{GS}	-	-	±20	Volts
ON-STATE DRAIN CURRENT	I _{D25}	-	-	50	Amps
PULSED DRAIN CURRENT	I _{DM}	-	-	200	Amps
OPERATING AND STORAGE TEMPERATURE	TJ/T _{STG}	-55	-	+150	°C
TOTAL DEVICE DISSIPATION	PD	-	-	270	Watts
THERMAL RESISTANCE, JUNCTION TO CASE	$R_{ ext{ heta}JC}$	-	-	0.45	°C/W

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MIN.	TYP.	MAX.	UNITS
DRAIN TO SOURCE BREAKDOWN	/OLTAGE	BV _{DSS}	200	-	-	Volts
\ \	/ _{GS} = 0V, I _D = 250μA					
STATIC DRAIN TO SOURCE ON ST	ATE RESISTANCE	R _{DS(ON)}	-	-	0.045	Ω
V.	$_{\rm SS}$ = 10V, $I_{\rm D}$ = 0.5 $I_{\rm D25}$					
GATE THRESHOLD VOLTAGE V _D	$_{\rm S}$ = V _{GS} , I _D = 4.0 mA	V _{GS(th)}	2.0	-	4.0	Volts
FORWARD TRANSCONDUCTANCE		g _{fs}	26	32		S(1/Ω)
V	$_{\rm DS}$ = 10V, $I_{\rm D}$ = 0.5 $I_{\rm D25}$				-	
ZERO GATE VOLTAGE DRAIN CUR	RENT					
V_{DS} = 0.8 x Max. rating, \	/ _{GS} = 0V, T _J = 25°C	I _{DSS}	-	-	200	μA
	T _J = 125°C				1000	
GATE TO SOURCE LEAKAGE FORW	VARD $V_{GS} = 20V$	I _{GSS}	-	-	100	nA
GATE TO SOURCE LEAKAGE REVE	$RSE V_{GS} = -20V$				-100	
TURN ON DELAY TIME	V _{DS} = 0.5V●	t _{d(ON)}	-	18	25	
RISE TIME	$V_{DSS}, I_{D} = 0.5 \bullet I_{D25}$	t _r		15	20	nsec
TURN OFF DELAY TIME	V _{GS} =10V	t _{d(OFF)}		72	90	
FALL TIME	$R_{\rm G} = 1.0\Omega$	t _f		16	25	
DIODE FORWARD VOLTAGE	$I_{\rm F} = I_{\rm S}, V_{\rm GS} = 0V$	V _{SD}			1.5	Volts
		V SD	-	-	1.5	VOIIS
Pulse test, $t \le 300 \ \mu s$						
REVERSE RECOVERY TIME	$T_{\rm J} = 25^{\circ}C,$	+		400		nsec
	$I_F = 25A, V_R = 100V$	t _{rr}	-	400	-	lisec
	$di/dt = 100A/\mu sec$			4400		
	$V_{GS} = 0 V,$	Ciss	-	4400	-	~ -
	$V_{\rm DS} = 25 \text{V},$	Coss		800		pF
REVERSE TRANSFER CAPACITAN	CE f = 1.0MHz	C _{rss}		280		

SENSITRON TECHNICAL DATA DATA SHEET 4335, REV. -



MECHANICAL DIMENSIONS: in Inches / mm



PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
N CHANNEL MOSFET IN A	DRAIN	SOURCE	GATE
LCC-3P PACKAGE			

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