

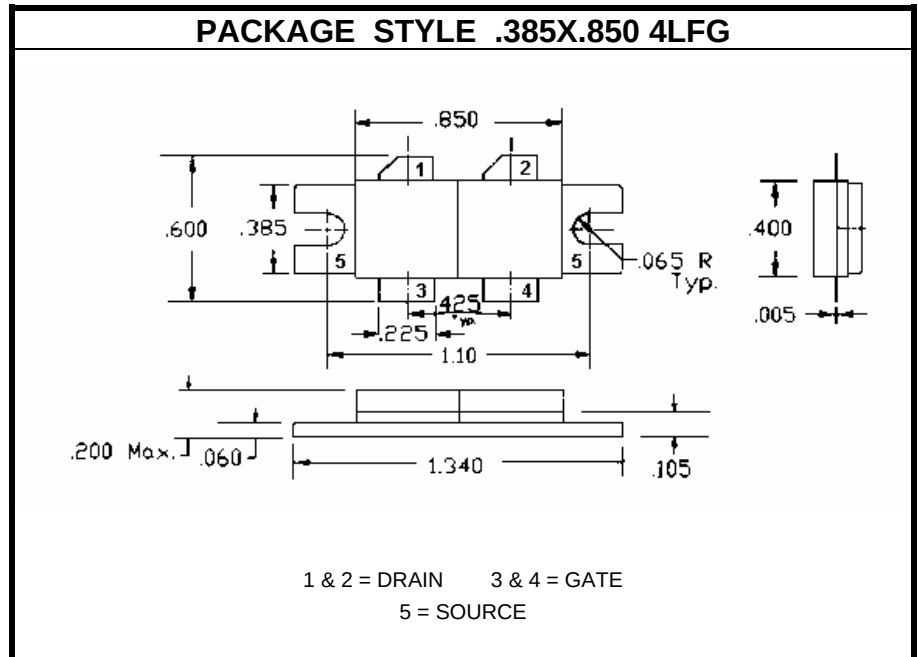
RF FIELD-EFFECT POWER TRANSISTOR

DESCRIPTION:

The **ASI SD2932** is a Dual Common Source N-Channel Enhancement-Mode MOSFET RF Power Transistor, Designed for 175 MHz, 300 W Transmitter and Amplifier Applications.

MAXIMUM RATINGS

I_D	40 A
V_{DSS}	125 V
V_{GS}	± 20 V
P_{DISS}	500 W @ $T_C = 25^\circ\text{C}$
T_J	-65°C to $+200^\circ\text{C}$
T_{STG}	-65°C to $+150^\circ\text{C}$
θ_{JC}	0.35 $^\circ\text{C/W}$



CHARACTERISTICS $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{DSS}	$I_D = 100\text{ mA}$	125			V
I_{DSS}	$V_{DS} = 50\text{ V}$ $V_{GS} = 0\text{ V}$			5.0	mA
I_{GSS}	$V_{DS} = 0\text{ V}$ $V_{GS} = 20\text{ V}$			1.0	μA
$V_{GS(th)}$	$I_D = 100\text{ mA}$ $V_{DS} = 10\text{ V}$	1.0		5.0	V
$V_{DS(on)}$	$I_D = 10\text{ A}$ $V_{GS} = 10\text{ V}$			5	V
g_{fs}	$I_D = 5.0\text{ A}$ $V_{DS} = 10\text{ V}$	5.0			mhos
C_{iss} C_{oss} C_{rss}	$V_{DS} = 50\text{ V}$ $V_{GS} = 0\text{ V}$ $f = 1.0\text{ MHz}$		350 250 15		pF
G_{ps} η	$V_{DD} = 50\text{ V}$ $I_{DQ} = 500\text{ mA}$ $P_{out} = 300\text{ W}$ $f = 175\text{ MHz}$	14 50	16 55		dB %
ψ	$V_{SWR} = 5:1$ AT ALL PHASE ANGLES	NO DEGRADATION IN OUTPUT POWER			

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