

POWER MOSFET

N-Channel Enhancement Mode

DESCRIPTION:

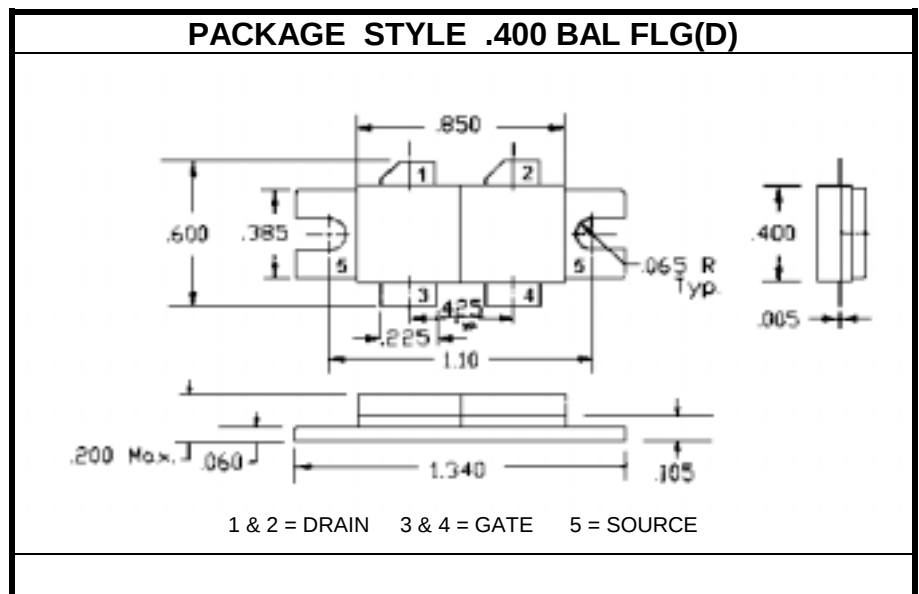
The **ASI BLF378** is a N-Channel Enhancement-Mode RF Power MOSFET Designed for broadband RF Applications up to 225 MHz.

FEATURES INCLUDE:

- $P_G = 14$ dB Min. at 225 MHz
- 20:1 Load VSWR Capability
- **Omnigold™** metalization system

MAXIMUM RATINGS

I_D	18 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°C/W



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

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{DSS}	$I_D = 40$ mA	$V_{GS} = 0$ V	125			V
I_{DSS}	$V_{DS} = 50$ V	$V_{GS} = 0$ V			5.0	mA
I_{GSS}	$V_{DS} = 0$ V	$V_{GS} = 30$ V			1.0	μA
V_{GS}	$V_{GS} = V_{DS}$	$I_{DS} = 300$ mA	1.0		7.0	V
g_M	$V_{DS} = 10$ V	$V_{GS} = 5.0$ V		5.5		Mho
$R_{DS(on)}$	$V_{GS} = 20$ V	$I_{DS} = 6.0$ A		0.30		Ω
I_{DSAT}	$V_{GS} = 20$ V	$V_{DS} = 10$ V		35		A
C_{iss} C_{oss} C_{rss}	$V_{DS} = 50$ V	$V_{GS} = 0$ V		400 200 15		pF
P_{GS} η ψ	$V_{DS} = 50$ V	$I_{DQ} = 0.8$ A	14 50		20:1	dB % ---

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Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com