



S3028

SILICON ABRUPT VARACTOR DIODE

DESCRIPTION:

The **ASI S3028** is a Designed for use in general purpose filter and oscillator applications.

FEATURES:

- Blue Cathode dot
- Hermetic sealed Package

MAXIMUM RATINGS

I_F	10 mA
V_R	50 V
P_{DISS}	1.5 W @ $T_C = 25\text{ }^\circ\text{C}$
T_J	-65 °C to +150 °C
T_{STG}	-65 °C to +150 °C
$T_{soldering}$	+230 °C for 30 Seconds

PACKAGE STYLE 51

	MINIMUM INCHES/MM	MAXIMUM INCHES/MM
A	.118/2.997	.124/3.150
B	.205/5.207	.225/5.715
C	.060/1.524	.064/1.626
D	.077/1.956	.083/2.108
E	.060/1.524	.064/1.626
F		.027/0.686
G	.060/1.524	.064/1.626

Cp=18pF
Lp=1.0nH

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_F	$I_F = 100\text{ mA}$			1.0	V
V_{BR}	$I_R = 10\text{ }\mu\text{A}$	50			V
C_{J6}	$V_R = 6.0\text{ V}$ $f = 1.0\text{ MHz}$	1.7		2.2	pF
C_{J45}	$V_R = 45\text{ V}$ $f = 1.0\text{ MHz}$			1.0	pF
Δ	$V_R = 6.0\text{ V}$ & $V_R = 45\text{ V}$	2.25			---
F_C	$V_R = 6.0\text{ V}$	45			GHz

