

SILICON HYPERABRUPT VARACTOR DIODE

DESCRIPTION:

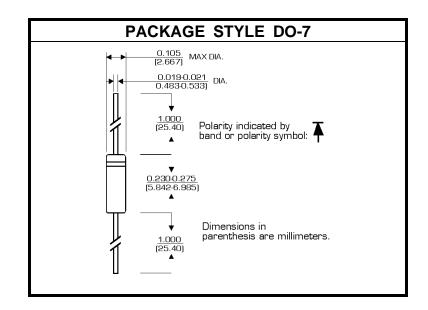
The **ASI DKV6510-12** is an Ion Implanted Silicon Hyperabrupt Varactor Diode Designed for Octave Tuning up to 500 MHz.

FEATURES INCLUDE:

- Large Tuning Ratio 14:1 Typ.
- High **Q 700** Typ.
- Hermetic Glass DO-7 Package

MAXIMUM RATINGS

I _F	100 mA			
V_{R}	12 V			
P _{DISS}	$400 \text{ mW} @ T_C = 25 ^{\circ}C$			
TJ	-55 °C to +150 °C			
T _{STG}	-65 °C to +200 °C			



CHARACTERISTICS T_C = 25 °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	I _R = 10 μA		12			٧
I_R	V _R = 10 V				100	Ame
	[_
C_{T2}	$V_R = 2.0 \text{ V}$ f =	= 1.0 MHz	45		75	pF
C _{T10}	V _R = 10 V f =	= 1.0 MHz	4.0	_	7.0	рF
	_					
C_{T2}/C_{T10}	$V_R = 2 \& 10 V$ f =	= 1.0 MHz	10.0		17.0	
Q	V _R = 2.0 V f =	= 1.0 MHz	200	700		