

# SILICON HYPERABRUPT VARACTOR DIODE

## DESCRIPTION:

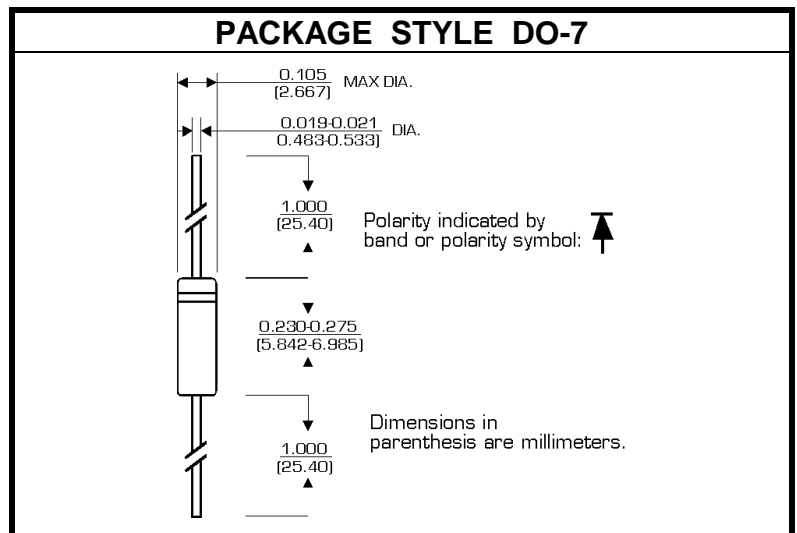
The **ASI DKV6522-12** is an Silicon Hyperabrupt Varactor Diode Designed for VHF/UHF Filters and Oscillators Requiring Octave Tuning.

## FEATURES INCLUDE:

- $C_{T4}$  = 50 pF Nominal
- $C_{T4}/C_{T20}$  = 6.2 Typical
- Hermetic Glass Package

## MAXIMUM RATINGS

$I_F$	40 mA
$V_R$	22 V
$P_{DISS}$	200 mW @ $T_C = 25\text{ }^\circ\text{C}$
$T_J$	-55 $^\circ\text{C}$ to +125 $^\circ\text{C}$
$T_{STG}$	-55 $^\circ\text{C}$ to +175 $^\circ\text{C}$
$T_{SOLD}$	+230 $^\circ\text{C}$ for 5 seconds



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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{BR}$	$I_R = 10\text{ }\mu\text{A}$	22			V
$I_R$	$V_R = 20\text{ V}$			100	nA
$C_T$	$V_R = 4.0\text{ V}$	45.0		55.0	pF
	$V_R = 8.0\text{ V}$	18.0		25.0	
	$V_R = 20\text{ V}$	7.3		9.2	
$C_{T4}/C_{T20}$	$V_R = 4\text{ \& } 20\text{ V}$	4.9		7.5	---
Q	$V_R = 4.0\text{ V}$	200			---