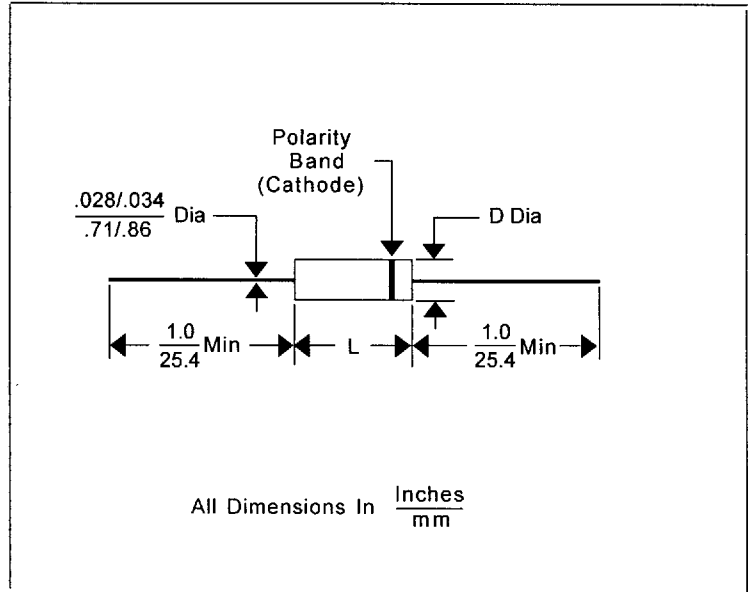




100 mA High Voltage Silicon Rectifiers

FEATURES:

- Diffused Silicon Junctions
- Glass Passivated Junctions
- Avalanche Characteristics
- Matched Reverse Parameters
- Low Reverse Leakage
- Epoxy Encapsulated



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

At $T_A = 25^\circ\text{C}$ ambient temperature unless otherwise specified

	SYMBOL	HVC08	HVC10	HVC12	HVC15	HVC20	HVC25	HVC30	HVC35	HVC40	HVC45	HVC50	Unit	
Peak Reverse Voltage	V_{RM}	8	10	12	15	20	25	30	35	40	45	50	KV	
Average Forward Current at $T_A=50^\circ\text{C}$	I_o	100	100	100	100	100	100	100	100	100	100	100	mA	
Maximum Forward Voltage Drop at I_o	V_{FM}	13	13	13	20	26	33	40	46	53	60	66	V	
Case Dimension - Length (inches)	L	1.0	1.0	1.0	1.63	2.13	2.63	3.13	3.63	4.13	4.63	5.13	in.	
Case Dimension - Diameter (inches)	D	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	in.	
Peak Surge Forward Current, 1/2 cycle @ 60 Hz Non-Rep (Fig. 1)	I_{FSM}	10.0											A	
Maximum Reverse Current $T_A=25^\circ\text{C}$ at $V_R=V_{RM}$ $T_A=100^\circ\text{C}$	I_R												2.0	uA
	I_R												100	uA
Max. Peak Repetitive Forward Current	I_{FRM}												3.0	A
Maximum Reverse Recovery Time	T_{RR}												n/a	ns
Operating Temperature Range	T_{OP}												-40 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}												-40 to +125	$^\circ\text{C}$

252 Cox Street, Roselle, NJ, USA, 07203-1704 ■ 908 245-2233

Toll-Free (800) 392-2474

Fax: (908) 245-5541