

## **HVCF Series**

2.5KV-10KV, High Forward Surge, Fast Recovery, High Voltage Diode

## **Features**

- High current, fast recovery, silicon diode.
- Molded plastic body, ANSI/UL94 V-0 rated material.
- Glass passivated.
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II, Annex III, 7(a) and EU RoHS Directive (EU) 2015/863 of March 2015, Amending Annex II



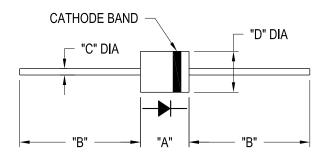
## **DEVICE ELECTRICAL CHARACTERISTICS**

(25°C ambient temperature unless stated otherwise)

	Conditions	Symbol	HVCF25	HVCF50	HVCF100	
Maximum Repetitive Peak Reverse Volt.	-	$V_{RRM}$	2500 V	5000 V	10000 V	
Average Forward Current Maximum	$T_A = 55^{\circ}C$	I <sub>FAVM</sub>	1.5 A	1.2 A	0.65 A	
Average Forward Current Maximum	*T <sub>L</sub> = 55°C	I <sub>FAVM</sub>	3.0 A	2.2 A	1.5 A	
Maximum Forward Voltage Drop	$I_{F} = I_{FAVM(TL)}$	$V_{F}$	4.3 V	7.0 V	10.7 V	
Maximum Surge Current Rating	8.3msec, half sine	I <sub>FSM</sub>	200 A	150 A	100 A	
Maximum Reverse Current	at rated V <sub>RRM</sub>	$I_R$	2.0 μΑ			
Maximum Reverse Recovery Time	$I_F = 0.5A$ ; $I_R = -1.0A$ ; $Irr = -0.25A$	$T_RR$	75 ηsec			
Typical Junction Capacitance	f = 1MHz, $Vr = 0 VDC$	C₁	65 pf	45 pf	24 pf	
Maximum Junction Temperature	-	TJ	175°C 150°C			
Storage Temperature Range	-	T <sub>STG</sub>	-55°C to 175°C			

<sup>\*</sup>Temperature measured at lead egress; lead length = 9.5mm

		Min.		Max.	
MECHANICAL DATA		in.	mm	in.	mm
Body Length	Α	-	-	0.38	9.65
Body Diameter	D	-	-	0.32	8.13
Lead Length	В	0.600	15.2	-	-
Lead Diameter	С	-	-	0.080	2.0





VERSION: 2.0

EFFECTIVE: 23 May 2016

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