

5 kV, 40 mA, Fast Recovery High Voltage Diode

## **Features**

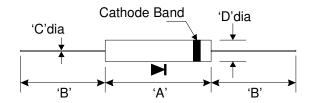
- Fast reverse recovery time for high efficiency
- Molded plastic body, ANSI/UL94 V-0 rated material
- RoHS compliant to Directive 2011/65/EC, Article 4(1), Annex II; Annex III, 7(a)



## **Device Electrical Characteristics**

(25°C ambient temperature unless stated otherwise)	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage		$V_{RRM}$	5,000 Volts
Average Forward Current Maximum	$T_A = 55^{\circ}C$	IFAVM	40 mA
Maximum Forward Voltage Drop	$I_F = 40 \text{mA}$	$\mathbf{V}_{\mathbf{F}}$	26 Volts
Maximum Surge Current Rating	8.3msec, half sine	I <sub>FSM</sub>	3 Amps
Maximum Reverse Current	at rated V <sub>RRM</sub>	$I_R$	1.0 μΑ
Maximum Reverse Recovery Time	$I_F$ =40mA, $I_R$ = 80mA, $I_{RR}$ = 20mA	$T_{RR}$	100 ηsec
Typical Junction Capacitance	$f = 1MHz$ , $V_R = 0 VDC$	$\mathbf{C}_{\mathbf{J}}$	0.3 pf
Maximum Junction Temperature	-	T <sub>J</sub>	125°C
Storage Temperature Range	-	T <sub>STG</sub>	-55°C to 150°C

		Min.		Max.	
Mechanical Data		in.	mm	in.	mm
Body Length	A	-	-	0.40	10.2
Body Diameter	D	-	-	0.12	3.1
Lead Length	В	.95	24.2	-	-
Lead Diameter	С	-	-	0.025	0.64



VERSION: 1.0

EFFECTIVE: JANUARY 26, 2015