HL500

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°C	I_{FAVM}	40 mA
Maximum Forward Voltage Drop	I_F = 40mA	V_F	26 Volts
Maximum Surge Current Rating	8.3msec, half sine	I_{FSM}	3 Amps
Maximum Reverse Current	at rated V_{RRM}	I_R	1.0 µA
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	C_J	0.3 pf
Maximum Junction Temperature	-	T_J	125°C
Storage Temperature Range	-	T_{STG}	-55°C to 150°C

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