

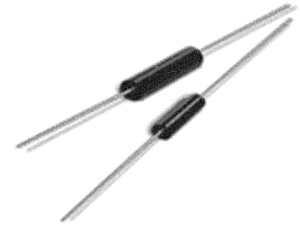


DV Series

6KV to 10KV, Fast Recovery
High Voltage Rectifiers

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)

Parameter	Conditions	Symbol	DV6P	DV8P	DV10P
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	6000 V	8000 V	10000 V
Average Forward Current maximum	T _A = 55°C	I _{FAVM}	75mA	60mA	55mA
Maximum Forward Voltage Drop	I _F = 20mA	V _F	7.5 Volts	11.5 Volts	16 Volts
Maximum Surge Current	8.3msec, half sine	I _{FSM}	3 Amps		
Maximum Reverse Current	at rated V _{RRM}	I _R	0.02μA		0.04μA
Maximum Reverse Recovery Time	I _F =0.5I _{FAVM} , I _R = I _{FAVM} , I _{RR} = 0.25I _{FAVM} (Typical)	T _{RR}	75ηsec		
Typical Junction Capacitance	f = 1MHz, V _R = 0 VDC	C _J	1.3pf	0.9pf	0.65pf
Maximum Junction Temperature	-	T _J	150°C		
Storage Temperature Range	-	T _{STG}	-55°C to 150°C		
Mechanical Data		(Nominal Dimensions)			
Body Length		A	0.195in./5.0mm		
Body Diameter		D	0.080in./2.0mm		
Lead Length		B	1.0in./25.4mm		
Lead Diameter		C	0.020in./0.5mm		

