

# High Voltage Diodes - Surface Mount

Original Released: 05-21-15  
 Revised: 01-14-20

**150mA - 500mA • 70ns**

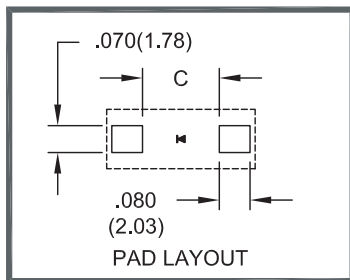
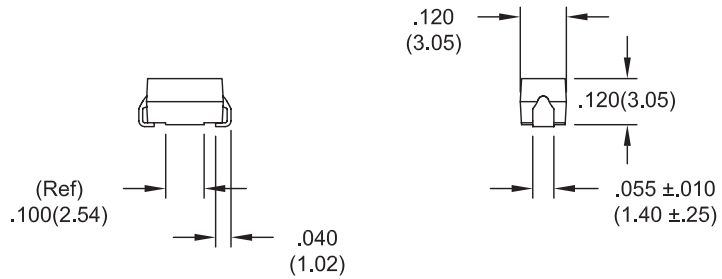
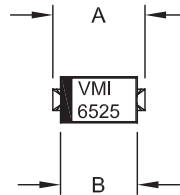
ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS													
Part Number	Working Reverse Voltage (Vrwm)	Average Rectified Current (Io)		Reverse Current @ Vrwm (Ir)		Forward Voltage (Vf)		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impd. $\theta_{J-L}$	Junction Cap. @50VDC @ 1kHz (Cj)	Markings
		55°C(1)	100°C(2)	25°C	100°C	25°C		25°C	25°C	25°C	25°C	25°C	
	Volts	mA	mA	$\mu$ A	$\mu$ A	Volts	mA	Amps	Amps	ns	°C/W	pF	
SXF6521	2000	500	250	0.5	20	3.0	500	25	5.00	70	20	8.0	6521
SXF6523	3000	250	125	0.5	20	5.0	250	15	3.00	70	20	4.0	6523
SXF6525	5000	150	75	0.5	20	7.0	150	10	2.00	70	20	3.0	6525

(1)TL=55°C (2)TL=100°C (3)If=125mA, Ir=250mA, Irr=63mA \*Op.Temp. -65°C to +175°C Stg.Temp. -65°C to +200°C

Tolerance:  
 .XXX ±.005(.13)



Parts	A	B	C
SXF6521	.240 ±.010 (6.10 ±.25)	.200 ±.005 (5.08 ±.13)	.130 (3.30)
SXF6523 SXF6525	.280 ±.010 (7.11 ±.25)	.240 ±.005 (6.10 ±.13)	.170 (4.32)



Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.



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