

SCHJ15K SCHJ22.5K SCHJ30K SCHJ37.5K SCHJ45K

January 8, 1998

TEL:805-498-2111 FAX:805-498-3804 WEB:http://www.semtech.com

QUICK REFERENCE DATA

- $V_R = 15kV 45kV$
- I_F = 50mA (in air)
- $I_R = 1.0 \mu A$
- IFSM = 25A

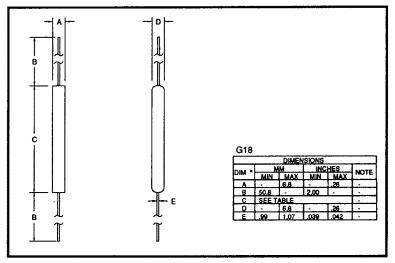
HIGH VOLTAGE, HIGH DENSITY, LEADED SILICON RECTIFIER ASSEMBLY

- Low forward voltage drops
- Low reverse leakage current
- High thermal shock resistance
- Corona free construction
- Low distributed capacitance

ABSOLUTE MAXIMUM RATINGS

Device	Working Reverse	Average Rectified Current				1 Cycle Surge Current Irsy	$I^2 t$ $t_p = 8.3 mS$	Repetitive Surge	Case Length
Туре	Voltage _{Vrwm}	@ 55°C	@ 100°C	Forced air 600CFM, 55°C	in still oil @ 55 °C	$t_p = 8.3mS$ @ T _{1 MAX}	@ T _{J MAX}	Current I _{FRM} @ 25°C	Max
					· · ·		A ² S	A	Dim C
	Volts	Amps	Amps	Amps	Amps	Amps	AS	Amps	inches
SCHJ15K	15000	l †	Ť		1	l †	l t		1.52
SCHJ22.5K	22500								2.02
SCHJ30K	30000	0.05	0.03	0.1	0.1	25	2.6	2.5	2.52
SCHJ37.5K	37500								3.02
SCHJ45K	45000	Ļ	ļļ		Ļ	ļļ		ļ	3.52

MECHANICAL





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Device	Maximum Reverse Leakage Current I _R @ V _{RWM}		Maximum Forward Voltages V _F @ 0.1A	Maximum Reverse Recovery Time ⁽¹⁾	
Туре	@ 25 °C	@ 100 °C	© 25℃	@ 25°C	
	μΑ	μΑ	Volts	μS	
SCHJ15K	Ť	t	20	t til	
SCHJ22.5K			30		
SCHJ30K	1.0	20	40	2.5	
SCHJ37.5K			50		
SCHJ45K	Ļ	Ļ	60	Ļ	

°C

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ELECTRICAL CHARACTERISTICS

1. Measured on discrete devices prior to assembly

Operating temperature range	-55 °C to +150
Storage temperature range	-55 °C to +150

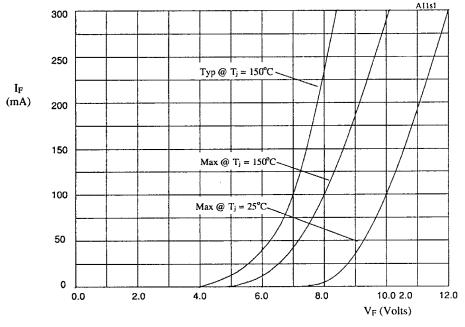


TABLE 1				
DEVICE	X-AXIS			
SCHJ15K SCHJ22.5K SCHJ30K SCHJ37.5K SCHJ45K	x2 x3 x4 x5 x6			

Fig 1. Forward voltage drop as a function of forward current for use with table 1.



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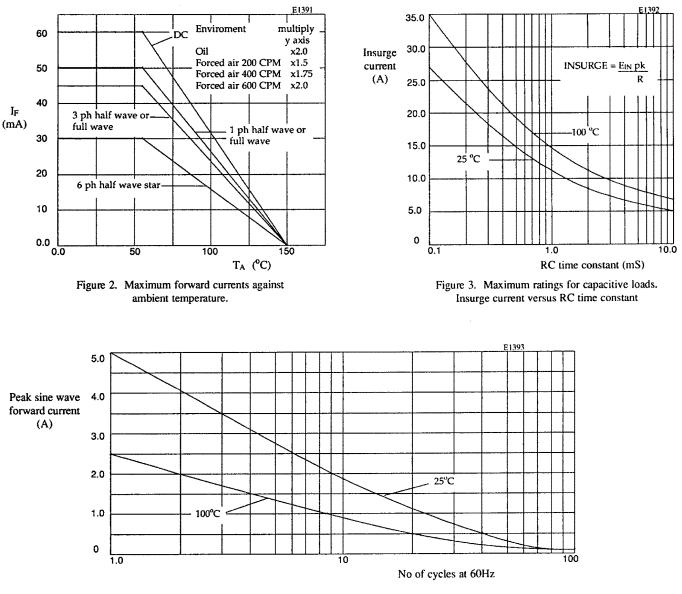


Figure 4. Non repetitive forward current surge curves for 25°C and 100°C

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