



Micro Commercial Components

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SK42L THRU SK44L

4 Amp Schottky Rectifier 20 to 40 Volts

Features

- High Surge Capability
- Ver low forward voltage drop
- Halogen free available upon request by adding suffix "-HF"
- Low power losses,high efficiency
- Guardring for overvoltage protection
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 14°C/W Junction To Lead
50°C/W Junction To Ambient

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SK42L	SK42L	20V	14V	20V
SK43L	SK43L	30V	21V	30V
SK44L	SK44L	40V	28V	40V

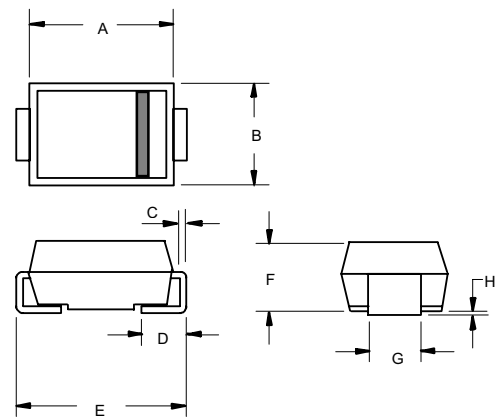
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	4.0A 8.0A	$T_L = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage*	V_F	.42V .31V	$I_{FM} = 4.0\text{A}; T_A = 25^\circ\text{C}$ $I_{FM} = 4.0\text{A}; T_A = 125^\circ\text{C}$
SK42L~43L			
SK44L		.44V .35V	$I_{FM} = 4.0\text{A}; T_A = 25^\circ\text{C}$ $I_{FM} = 4.0\text{A}; T_A = 125^\circ\text{C}$
SK42L~43L			
SK44L		.47V .37V .50V .41V	$I_{FM} = 8.0\text{A}; T_A = 25^\circ\text{C}$ $I_{FM} = 8.0\text{A}; T_A = 125^\circ\text{C}$ $I_{FM} = 8.0\text{A}; T_A = 25^\circ\text{C}$ $I_{FM} = 8.0\text{A}; T_A = 125^\circ\text{C}$
SK44L			
Maximum DC Reverse Current At Rated DC Blocking Voltage*	I_R	0.5mA 35mA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$

*Pulse test: Pulse width 300 μsec , Duty cycle 1%

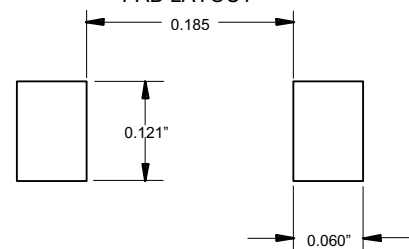
Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

DO-214AB (SMC) (LEAD FRAME)



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.260	.280	6.60	7.11	
B	.220	.245	5.59	6.22	
C	.006	.012	0.15	0.31	
D	.030	.060	0.76	1.52	
E	.305	.320	7.75	8.13	
F	.079	.103	2.00	2.62	
G	.108	.128	2.75	3.25	
H	.002	.008	0.050	0.203	

SUGGESTED SOLDER PAD LAYOUT



SK42L thru SK44L

RATINGS AND CHARACTERISTICS CURVES

($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

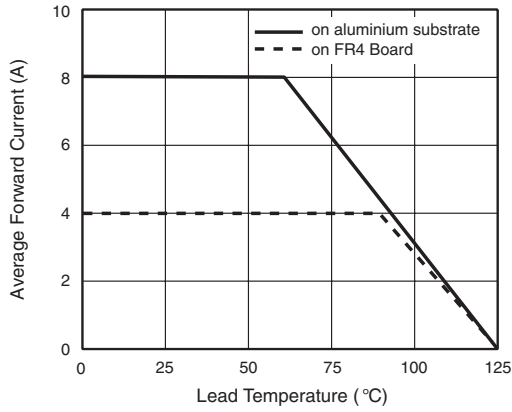


Figure 1. Forward Current Derating Curve

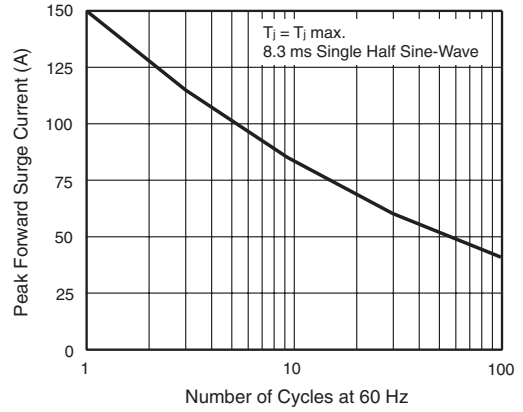


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

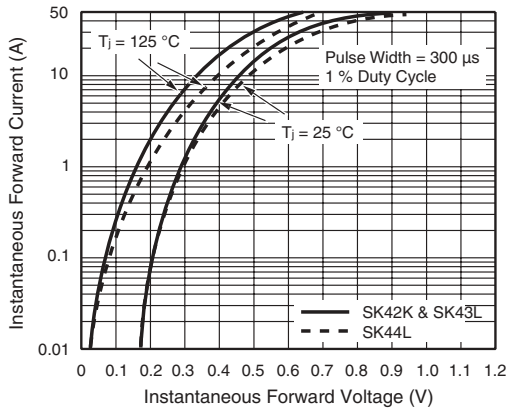


Figure 3. Typical Instantaneous Forward Characteristics

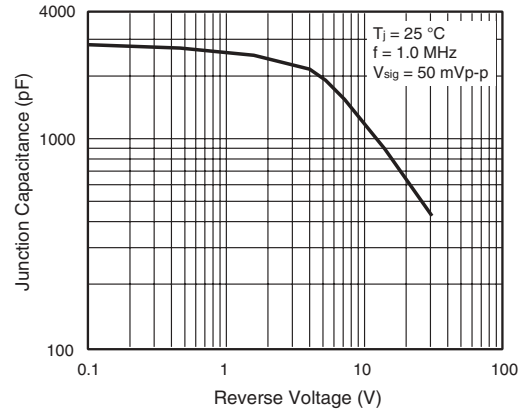


Figure 5. Typical Junction Capacitance

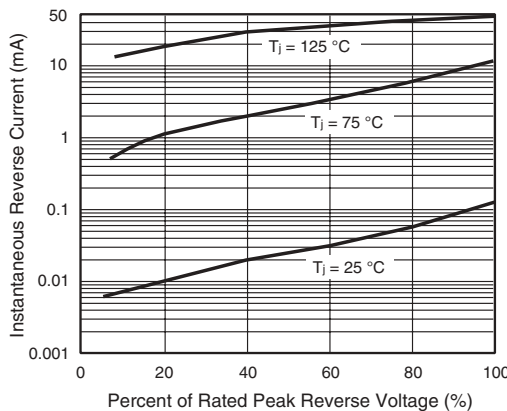


Figure 4. Typical Reverse Characteristics



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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