

SK42L THRU SK44L

Features

- High Surge Capability
- Ver low forward voltage drop
- 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

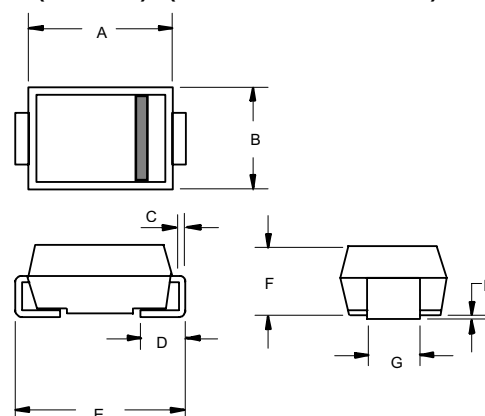
Average Forward Current	$I_{F(AV)}$	4.0A 8.0A	$T_L = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage*	V_F	SK42L~43L .42V .31V SK44L .44V .35V SK42L~43L .47V .37V SK44L .50V .41V	$I_{FM} = 4.0\text{A}; T_A = 25^\circ\text{C}$ $I_{FM} = 4.0\text{A};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

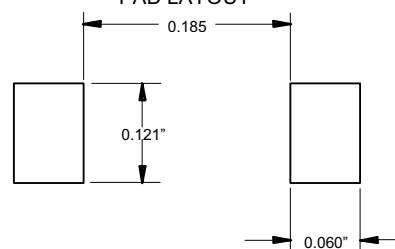
4 Amp Schottky Rectifier 20 to 40 Volts

DO-214AB (SMC) (LEAD FRAME)



DIM	INCHES		MM		NOTE
	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

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

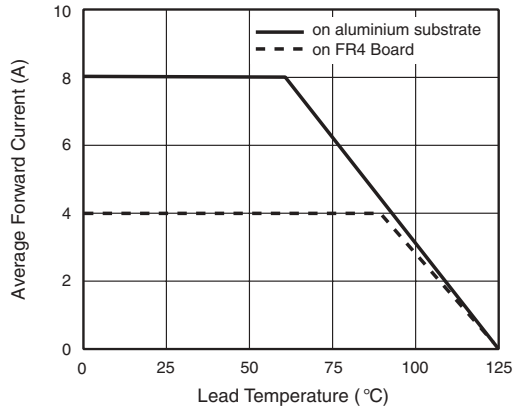


Figure 1. Forward Current Derating Curve

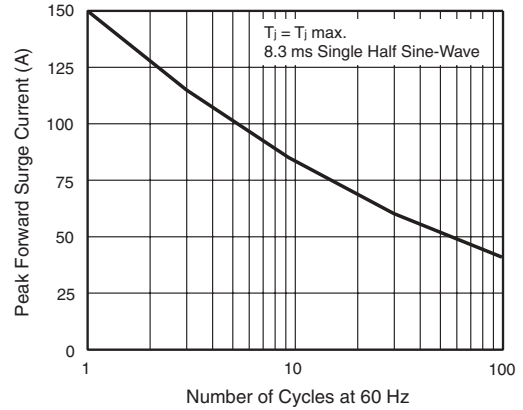


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

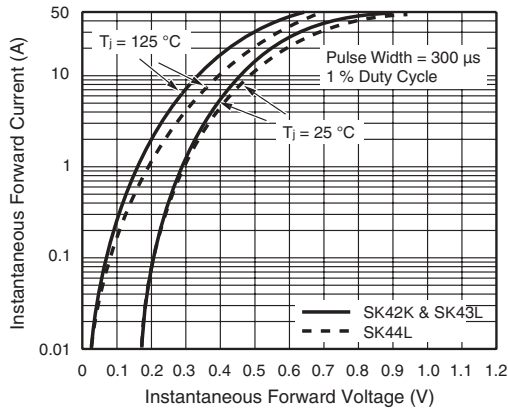


Figure 3. Typical Instantaneous Forward Characteristics

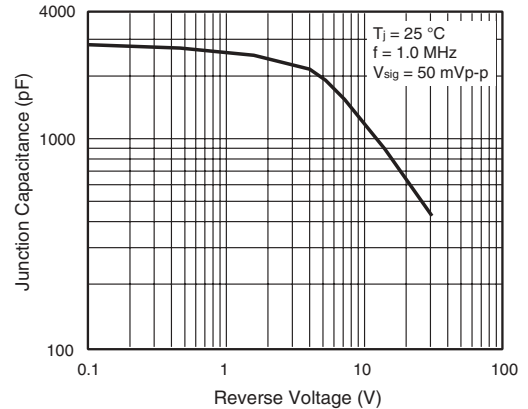


Figure 5. Typical Junction Capacitance

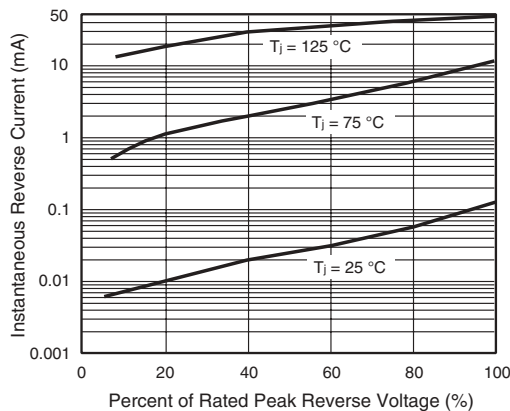


Figure 4. Typical Reverse Characteristics



TM

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Ordering Information :

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

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