

Micro Commercial Components Corp.

Complete Discrete Semiconductor Solutions

Part Number	SK12		
product family	SCHOTTKY BARRIER RECTIFIERS		
package type	HSMB		
VRM(PRV)	20V		
Ifsm	30A		
IF(AV)	1.0A		
@Vf	0.45V		
@If	1.0A		
Trr			
IR	0.5mA		
@VR	20V		
Package Qty	Tape: 3K/Reel, 48K/Ctn;		
This product is listed unde Diodes Schottky Barrier Rectifiers	r the following categories where you may find similar products:		

 $Downloaded \ from \ \underline{Elcodis.com} \ \ electronic \ components \ distributor$



Micro Commercial Components

SK12 THRU SK110

1 Amp Schottky

Rectifier 20 to 100 Volts

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Low Forward Voltage
- Guard Ring Protection
- High Current Capability
- Low Thermal Resistance
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

Maximum Ratings

- Operating Temperature(Tj): -55°C to +125°C
- Storage Temperature(Tstg): -55°C to +150°C
- Maximum Thermal Resistance; 28°C/W Junction To Lead

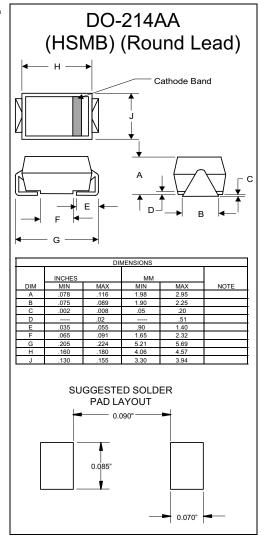
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
SK12	SK12	20V	14V	20V
SK13	SK13	30V	21V	30V
SK14	SK14	40V	28V	40V
SK15	SK15	50V	35V	50V
SK16	SK16	60V	42V	60V
SK18	SK18	80V	56V	80V
SK110	SK110	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

iooti ioai oilai aotoi io	tioo © 20 t	, onloce e	thoi mico opociniou
Average Forward Current	I _{F(AV)}	1.0A	T _J = 90°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage SK12 SK13 SK14 SK15-16 SK18-110	V _F	.45V .55V .60V .72V .85V	I _{FM} = 1.0A; T _a = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.5mA 20mA	T _A = 25°C T _A = 100°C
Typical Junction Capacitance SK12 SK13-SK110	C₃	110pF 30pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.





Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.