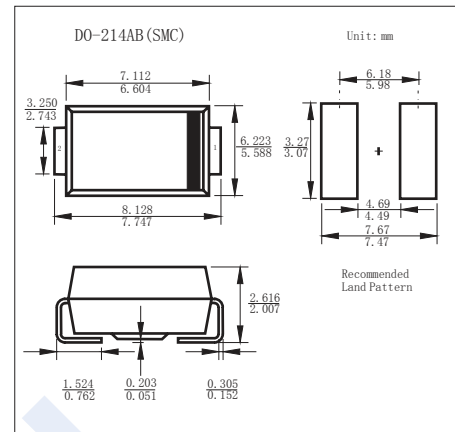


## Schottky Diodes

### SK32 ~ SK310

#### ■ Features

- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Easy Pick And Place
- High Temp Soldering: 250°C for 10 Seconds At Terminals
- High Current Capability With Low Forward Voltage



#### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	SK 32	SK 33	SK 34	SK 35	SK 36	SK 38	SK 310	Unit	
Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	V	
RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70		
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100		
Forward Voltage @ $I_{FM}=3A, T_J = 25^\circ\text{C}$	$V_F$	50			75		85		A	
Averaged Forward Current. $T_J=120^\circ\text{C}$	$I_{FAV}$	3								
Peak Forward Surge Current @ 8.3ms	$I_{FSM}$	100								
Maximum DC Reverse Current $T_J=25^\circ\text{C}$	$I_R$	5								mA
$T_J=100^\circ\text{C}$		20								
Typical Junction Capacitance @1MHz, $V_R=4V$	$C_j$	250								pF
Thermal Resistance Junction to Lead	$R_{\theta JL}$	10								$^\circ\text{C}/W$
Junction Temperature	$T_J$	125								$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to 150								

#### ■ Marking

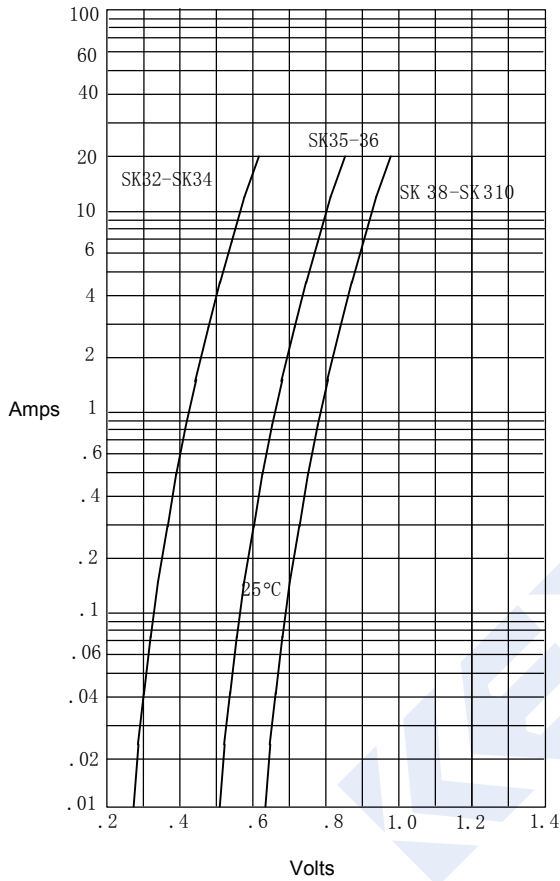
NO.	SK32	SK33	SK34	SK35	SK36	SK38	SK310
Marking	SK32	SK33	SK34	SK35	SK36	SK38	SK310

# Schottky Diodes

## SK32 ~ SK310

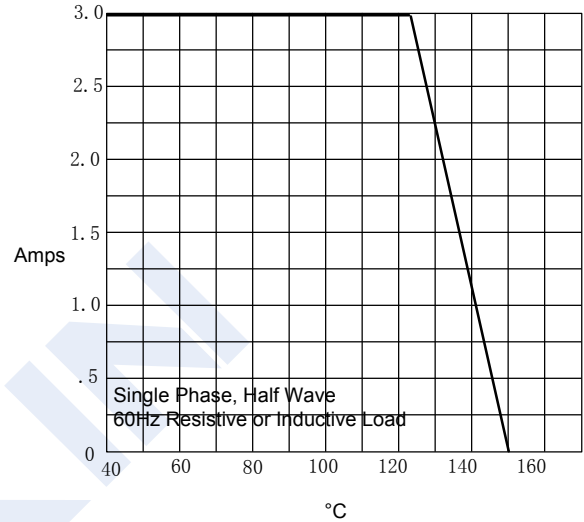
■ Typical Characteristics

Figure 1  
Typical Forward Characteristics



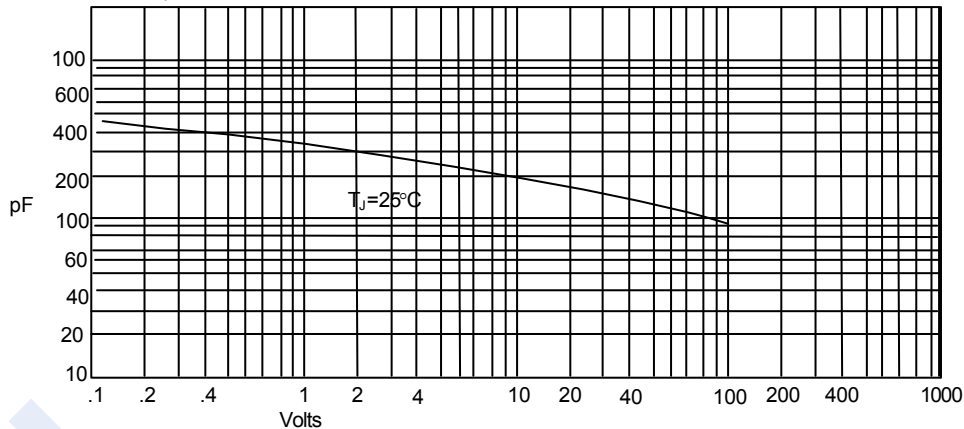
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



Average Forward Rectified Current - Amperes versus  
Ambient Temperature - °C

Figure 3  
Junction Capacitance

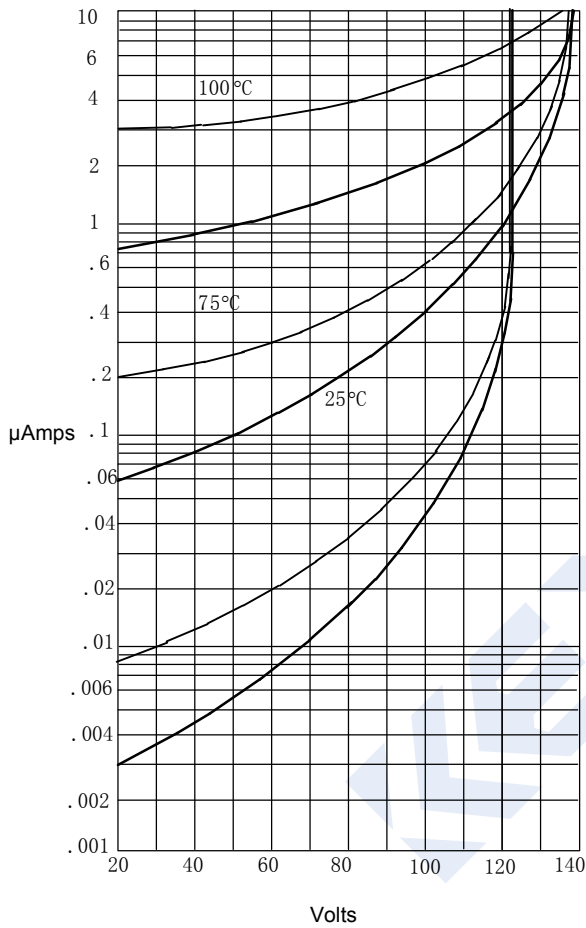


Junction Capacitance - pF versus  
Reverse Voltage - Volts

## Schottky Diodes SK32 ~ SK310

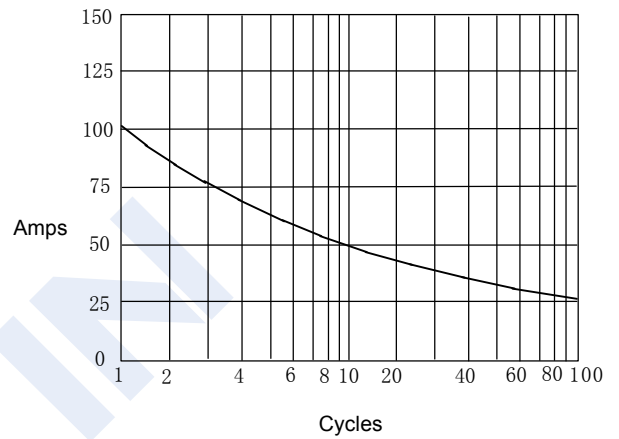
■ Typical Characteristics

Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesversus  
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5  
Peak Forward Surge Current



Peak Forward Surge Current - Amperesversus  
Number Of Cycles At 60Hz - Cycles

SK32-34 ———  
SK35-310 - - - -