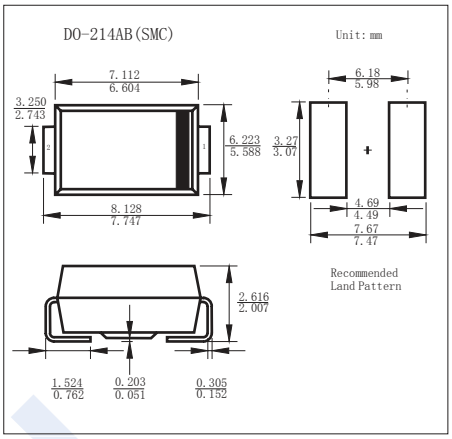
Schottky Diodes

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 Ta = 25℃

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℃	V_F	50			75		85		
Averaged Forward Current.T_J=120℃	I_{FAV}	3							A
Peak Forward Surge Current @ 8.3ms	I_{FSM}	100							
Maximum DC Reverse Current T_J=25℃	I_R	5							mA
T_J=100℃		20							
Typical Junction Capacitance @1MHz,V_R=4V	Cj	250							pF
Thermal Resistance Junction to Lead	$R_{\theta JL}$	10							℃/W
Junction Temperature	Tj	125							℃
Storage Temperature	Tstg	-55 to 150							

■ Marking

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

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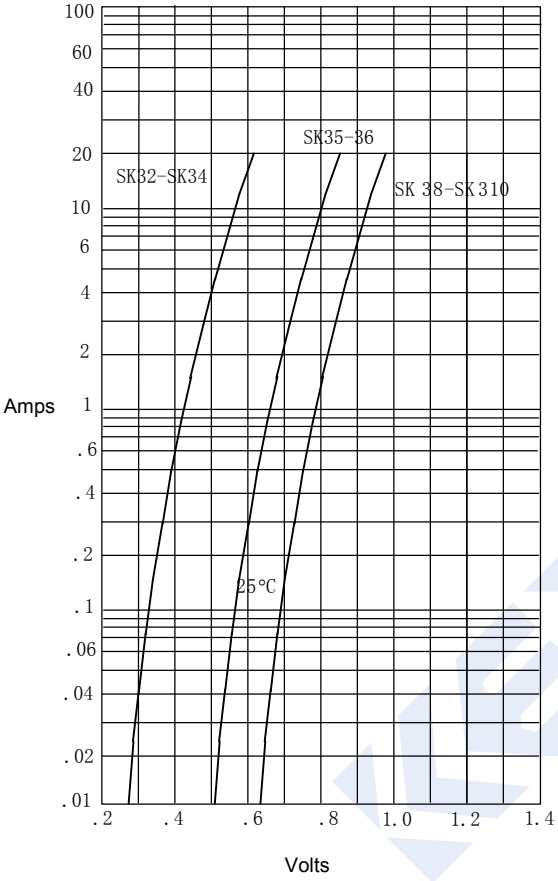
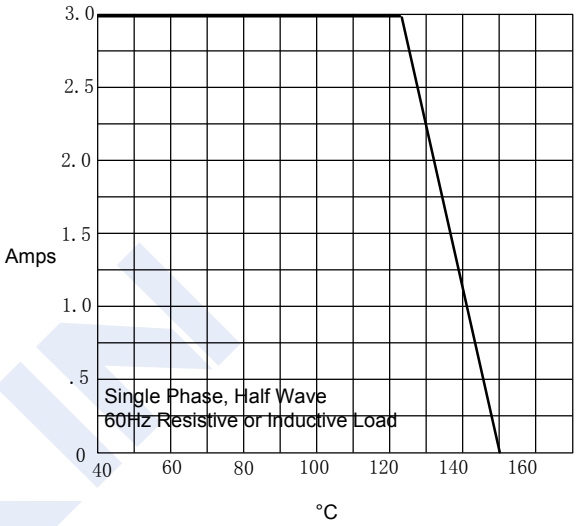
■ Typical Characterisitics

Figure 1
Typical Forward Characteristics



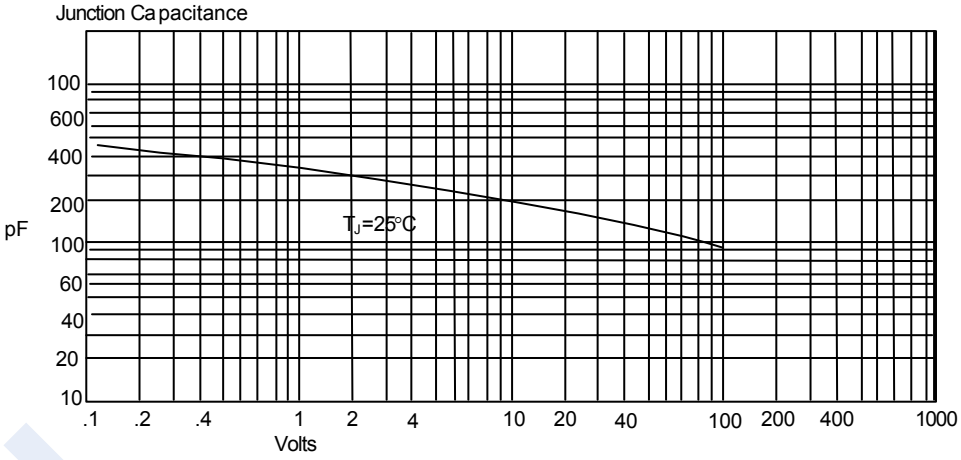
Instantaneous Forward Current - Amperesversus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperesversus
Ambient Temperature -°C

Figure 3
Junction Capacitance



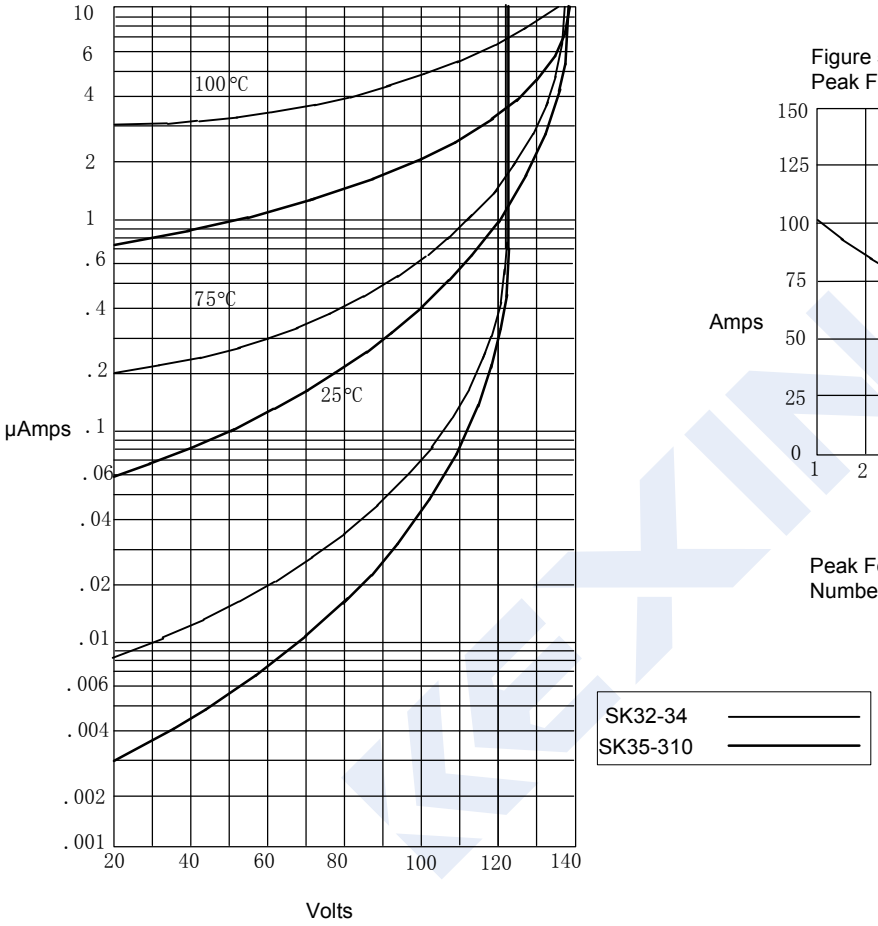
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Schottky Diodes

SK32 ~ SK310

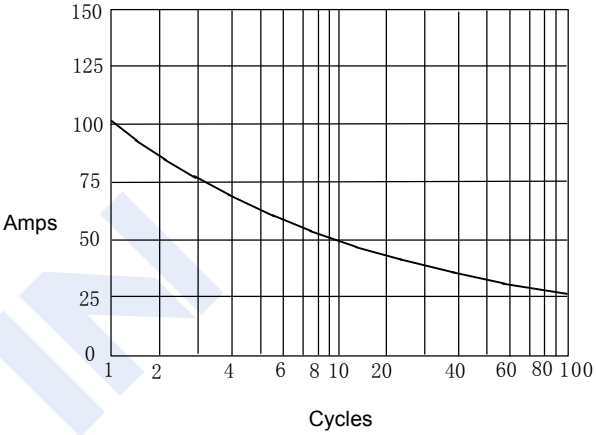
■ Typical Characterisitics

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