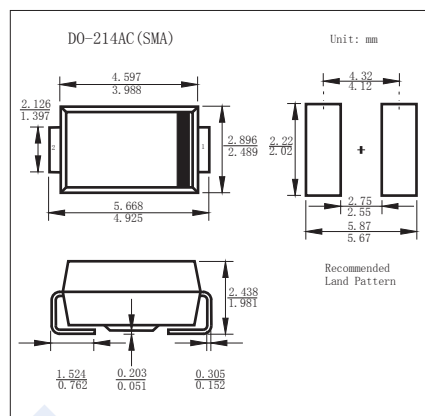


Schottky Diodes

1N5820 ~ 1N5822

■ Features

- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- Guardring for overvoltage protection



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	1N5820	1N5821	1N5822	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
RMS Voltage	V _{RMS}	14	21	28	
Non-Repetitive Peak Reverse Voltage	V _{RSM}	24	36	48	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	
Maximum Instantaneous Forward Voltage at 3.0 *1	V _F	475	500	525	mV
Maximum Instantaneous Forward Voltage at 9.4 *1		850	900	950	
Averaged Forward Current.T _L =95℃	I _{FAV}	3			A
Peak Forward Surge Current T _L =75℃	I _{FSM}	80			
Maximum DC Reverse Current Ta=25℃ Ta=100℃ *1	I _R	2			mA
		20			
Thermal Resistance From Junction to Ambient	R _{θJA}	40			℃/W
Thermal Resistance From Junction to Lead	R _{θJL}	10			
Junction Temperature	T _j	125			℃
Storage Temperature	T _{stg}	-65 to 125			

*1:Pulse test: 300ms pulse width, 1% duty cycle

■ Marking

NO.	1N5820	1N5821	1N5822
Marking	SS32	SS33	SS34

Schottky Diodes

1N5820 ~ 1N5822

■ Typical Characteristics

FIG. 1 - FORWARD CURRENT DERATING CURVE

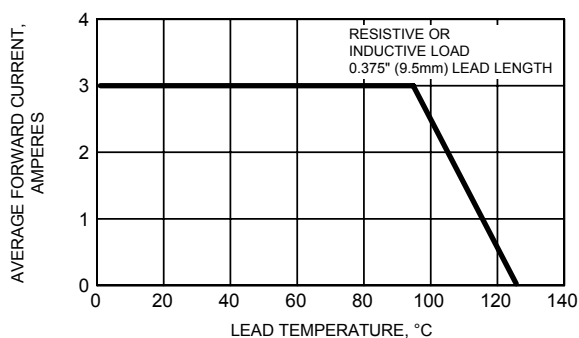


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

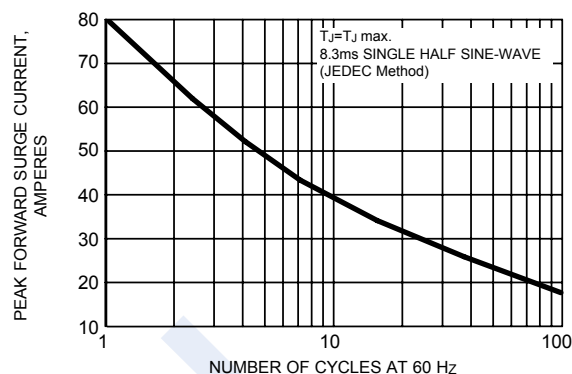


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

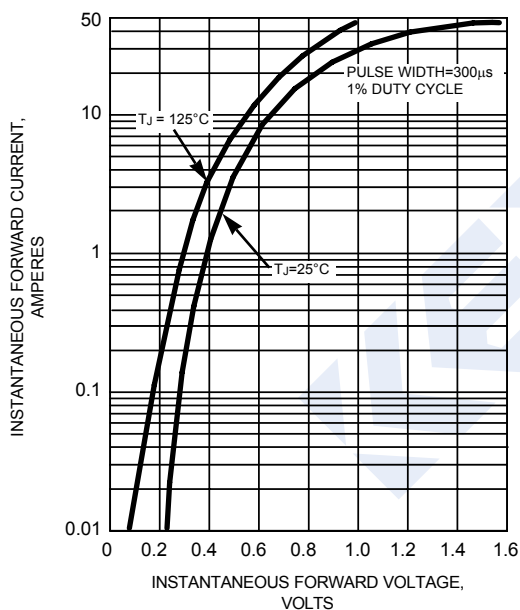


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

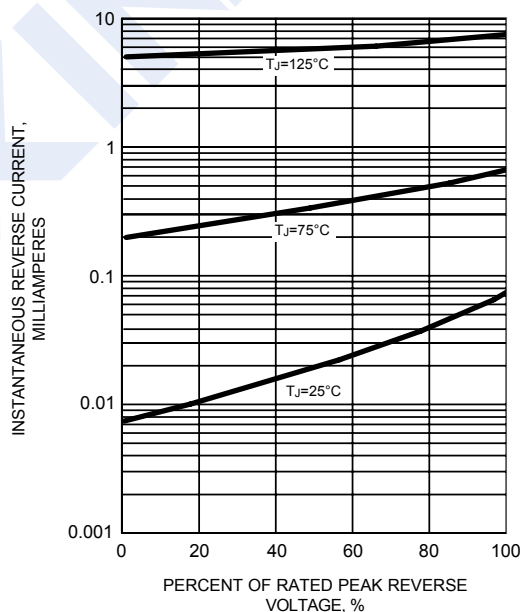


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

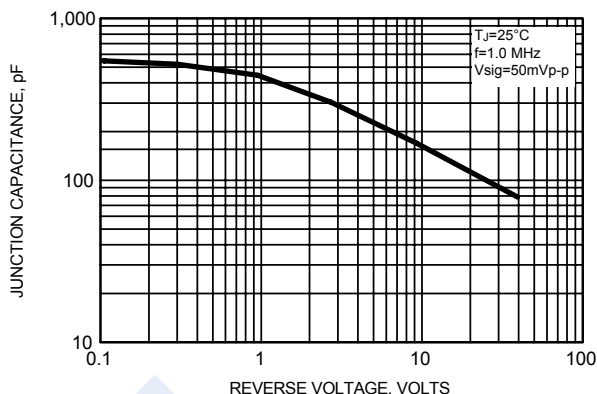


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

