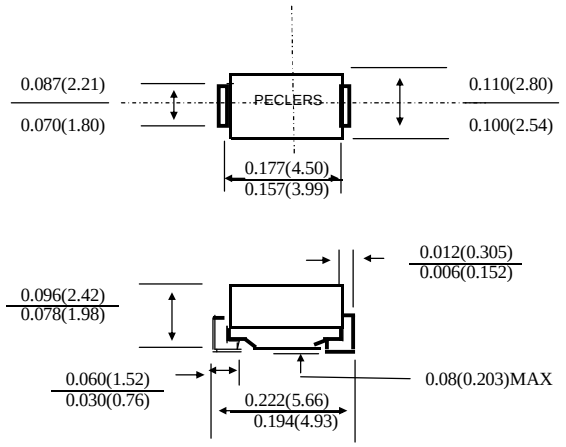
PECLERS®

SS12 THRU SS110

1.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 20 to 100 VOLTS

DO - 214AC



inch (mm)

FEATURES

. For surface mounted applications
. Metal silicon junction,majority carrier conduction
. Low power loss,high efficiency
. Built-in strain relief,ideal for automated placement
. High forward surge current capability
. High temperature soldering guaranteed:
250℃/10 seconds at terminals
. The plastic material carries U/L recognition 94V-O

MECHANICAL DATA

. Case: JEDEC DO -214AC. molded plastic
. Terminals: Axial leads. Solderable per MIL - STD - 750 Method 2026
. Polarity: Color band denotes cathode
. Weight: 0.003 ounce. 0.093 grams
. Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ℃ ambient temperature unless otherwise specified.

Single phase half wave 60HZ. resistive or inductive load. For capacitive load current derate by 20%

	SYMBOL	SS12	SS13	SS14	SS15	SS16	SS18	SS110	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. T_A = 75℃	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated T_j = 125℃	I_{FSM}	40.0							A
Maximum Forward Voltage at 1.0A DC	V_F	**0.45**	**0.55**		**0.70**		**0.85**		V
Maximum Reverse Current T_A = 25℃	I_R	**0.5**							m A
at Rated DC Blocking Voltage T_A = 100℃		**6.0**			**5.0**				
Typical Junction Capacitance (Note 1)	C_j	**110**			**90**				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	**88.0**							℃/W
Operating Junction Temperature Range	T_j	— 65 to 125			— 65 to 150				℃
Storage Temperature Range	T_{STG}	— 65 to 150							℃

NOTE:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. P.C.B.mounted with 0.2×0.2 (5.0×5.0mm)copper pad areas

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SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage：20 to 100 Volts　　Forward Current: 1.0Ampere

FIG.1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

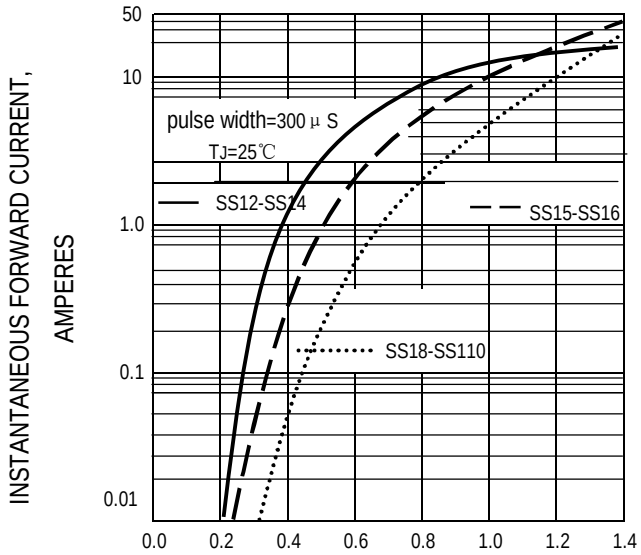

FIG.2-TYPICAL JUNCTION CHARACTERISTICS

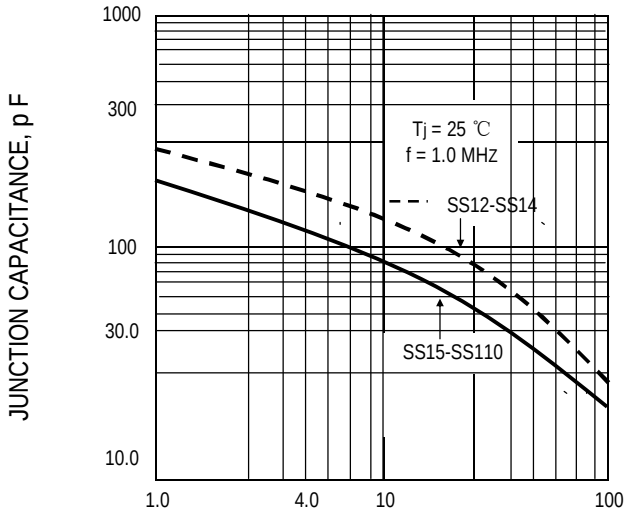

FIG.3-FORWARD CURRENT DERATING CURVE

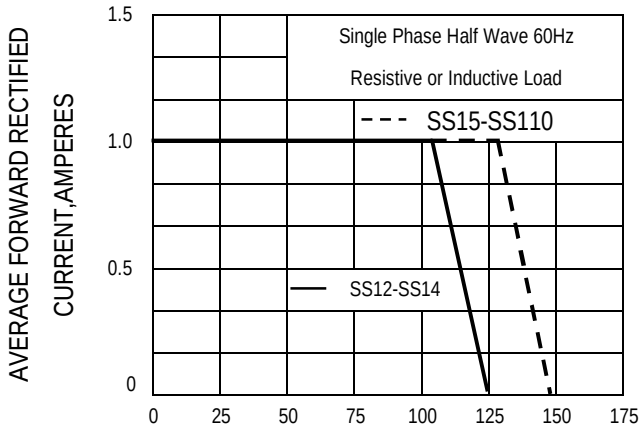

FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT