SS52 THRU SS5200

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts   Forward Current - *5.0 Amperes*

DO-214AC/SMA

0.067 (1.70) / 0.051 (1.30)

0.110(2.80) / 0.100(2.54)

0.177(4.50) / 0.157(3.99)

0.012(0.305) / 0.006(0.152)

0.096(2.42) / 0.078(1.98)

0.060(1.52) / 0.030(0.76)

0.008(0.203)MAX.

0.208(5.28) / 0.188(4.80)
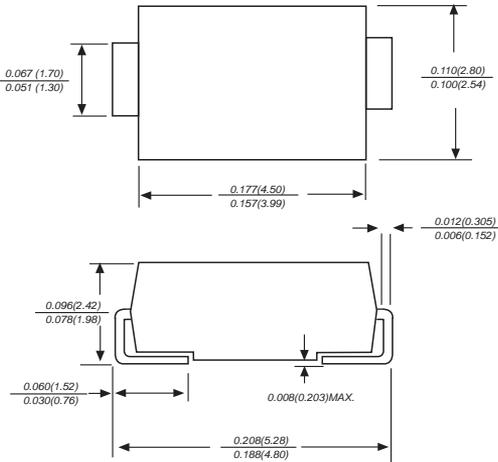
Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250℃/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body
Terminals: leads solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight:0.002 ounce, 0.07 grams

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%.

MDD Catalog Number	SYMBOLS	SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS5150	SS5200	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	150	VOLTS
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T_L(see fig.1)	$I_{(AV)}$	5.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125.0									Amps
Maximum instantaneous forward voltage at 5.0A	V_F	0.55		0.70		0.85				0.95	Volts
Maximum DC reverse current $T_A=25℃$	I_R	0.5						0.2			mA
at rated DC blocking voltage $T_A=100℃$		20					10	2.0			
Typical junction capacitance (NOTE 1)	C_J	200									pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	50.0									°C/W
Operating junction temperature range	$T_J,$	-50 to +125					-50 to +150				°C
Storage temperature range	T_{STG}	-50 to +150									°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
　　　2.P.C.B. mounted with 0.2x0.2 ″(5.0x5.0mm) copper pad areas

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RATINGS AND CHARACTERISTIC CURVES SS52 THRU SS5200

FIG. 1- FORWARD CURRENT DERATING CURVE

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

Single Phase
Half Wave 60Hz
Resistive or
inductive Load

SS52-SS56
SS58-SS5200

AMBIENT TEMPERATURE,°C

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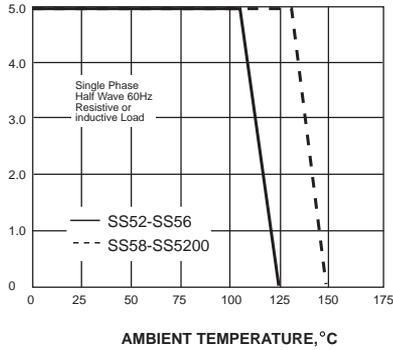
PEAK FORWARD SURGE CURRENT, AMPERES

8.3ms SINGLE HALF SINE-WAVE
(JEDEC Method)

NUMBER OF CYCLES AT 60 Hz

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS
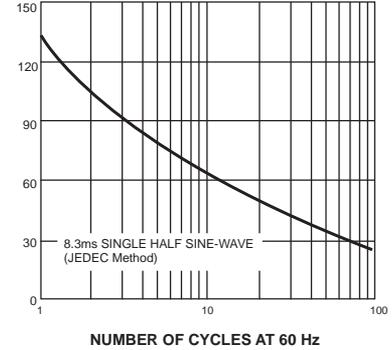
INSTANTANEOUS FORWARD CURRENT,AMPERES

$T_J=25℃$

SS52-SS54
SS55-SS56
SS58-SS5150
SS5200

INSTANTANEOUS FORWARD VOLEAGE, VOLTS

FIG. 4-TYPICAL REVERSE CHARACTERISTICS
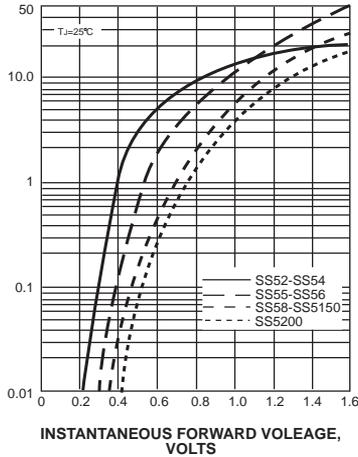
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

$T_J=100℃$

$T_J=75℃$

$T_J=25℃$

PERCENT OF PEAK REVERSE VOLTAGE,%

FIG. 5-TYPICAL JUNCTION CAPACITANCE
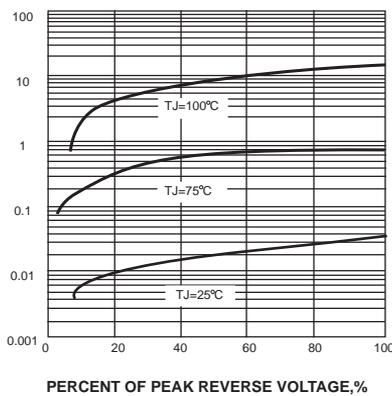
JUNCTION CAPACITANCE, pF

$T_J=25℃$

REVERSE VOLTAGE,VOLTS
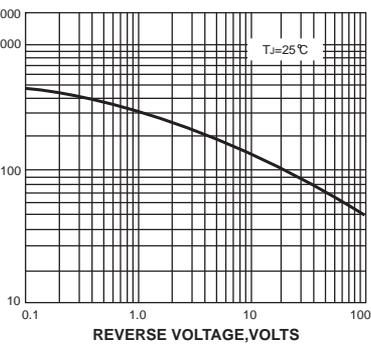
FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

TRANSIENT THERMAL IMPEDANCE, ℃/W

t,PULSE DURATION,sec.
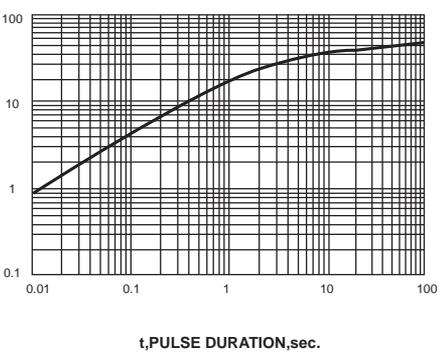
The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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