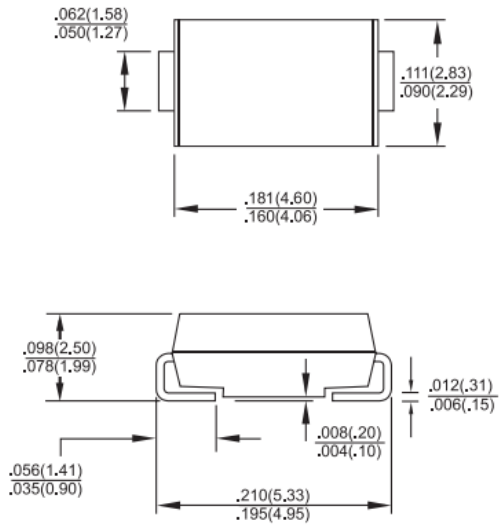
Surface Mount Schottky Rectifiers

Primary characteristics		
Parameter	**Value**	**Unit**
Maximum recurrent peak reverse voltage	20 ~ 100	V
Maximum average forward rectified current at T_L	3.0	A

Case dimensions



SMA/DO-214AC

Features

- For surface mounted application
- Easy pick and place
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low VF
- High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- Epitaxial construction
- High temperature soldering: 260˚C/10s at terminals
- Terminals: Pure tin plated, lead free
- Polarity: Indicated by cathode band
- Packing: 16mm tape per EIA STD RS-481

Absolute maximum ratings and electrical characteristics (T_A = 25°C unless otherwise specified)
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

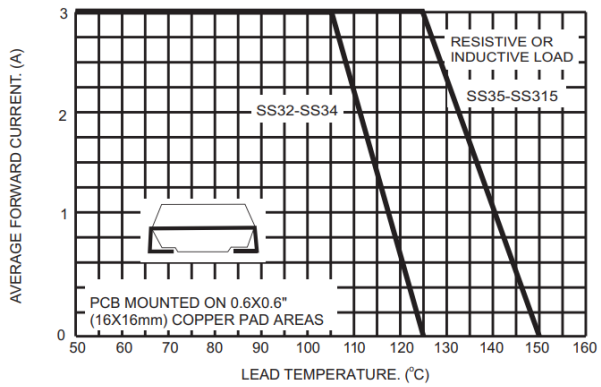
Parameter		Symbol	Value							Unit
			SS32	SS33	SS34	SS35	SS36	SS39	SS310	
Maximum recurrent peak reverse voltage		V_{RRM}	20	30	40	50	60	90	100	V
Maximum RMS voltage		V_{RMS}	14	21	28	35	42	63	70	V
Maximum DC blocking voltage		V_{DC}	20	30	40	50	60	90	100	V
Maximum average forward rectified current at T_L		$I_{(AV)}$	3							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	100			70				A
Maximum instantaneous forward voltage [1]	I_F=3A, T_A=25°C	V_F	0.50			0.75		0.85		V
	I_F=3A, T_A=100°C		0.40			0.65		0.70		V
Maximum DC reverse current at rated DC blocking voltage	T_a=25°C	I_R	0.5					0.1		mA
	T_a=125°C		10			5		0.5		mA
Typical thermal resistance		$R_{\theta JL}$	17							°C/W
		$R_{\theta JA}$	55							°C/W
Operating temperature range		T_J	-55 to +125			-55 to +150				°C

Storage temperature range	T_{STG}	-55 to +150	°C

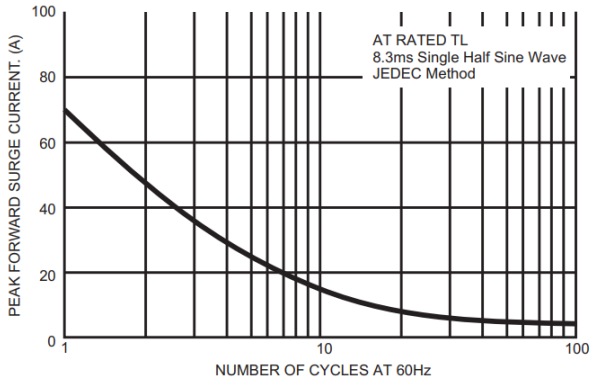
Notes:
[1] Pulse Test with PW=300usec, 1% Duty Cycle.

Typical characteristics

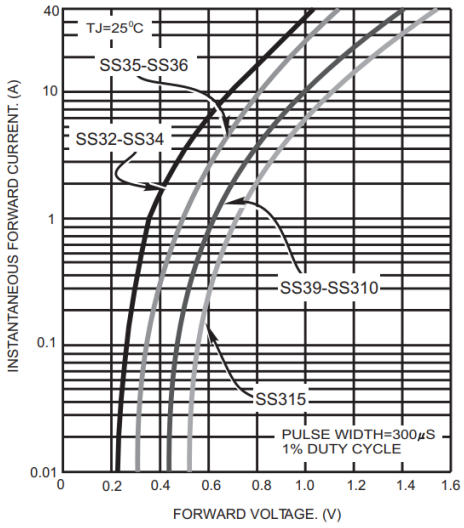
Maximum forward current derating curve



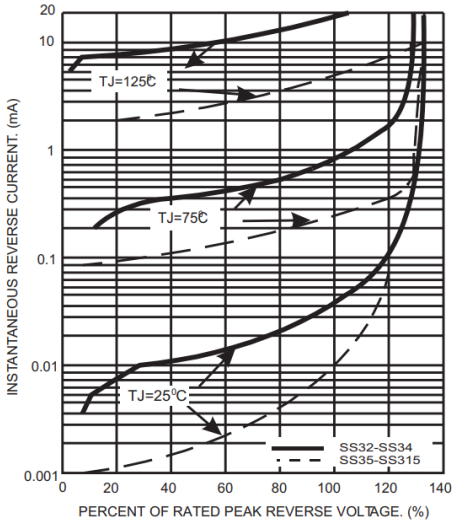
Maximum non-repetitive peak forward surge current



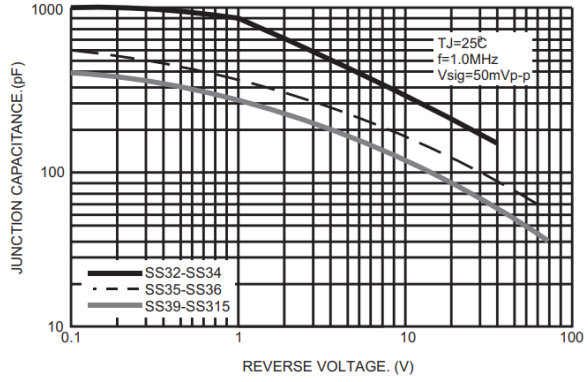
Typical forward characteristics



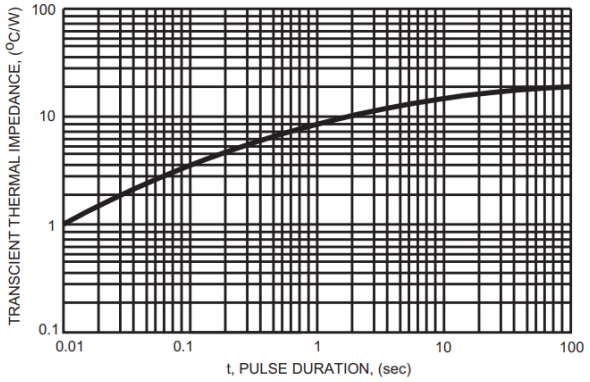
Typical reverse characteristics



Typical junction capacitance



Typical transient thermal characteristics



Ordering information			
Part Number	**Package**	**Shipping Quantity**	**Dimensions**
SS32 - SS310	SMA/DO-214AC	**2 000 pcs / reel**	---

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