

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260°C/10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking

Mechanical Data

- Case: DO214AC Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

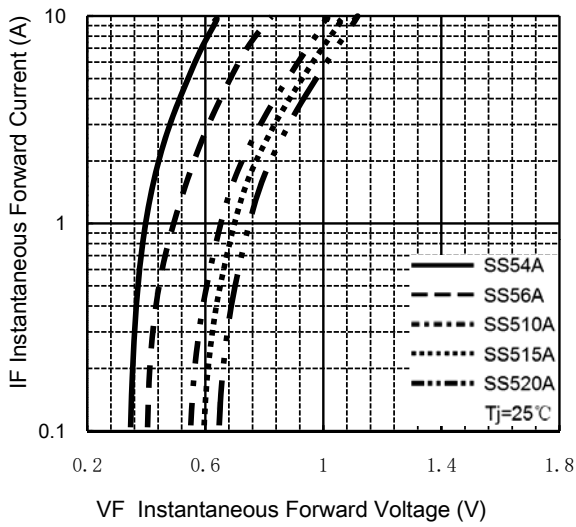
Parameter	Symbols	SS54A	SS56A	SS510A	SS515A	SS520A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage	V_{DC}	40	60	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	5.0					A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	125					A
Maximum forward voltage @ $I_F=5.0A$	V_F	0.55	0.70	0.85	0.92	0.95	V
Maximum reverse current @ V_D	I_R	$T_A=25^\circ C$	500	100	50		μA
		$T_A=100^\circ C$	20		10		mA
Typical thermal resistance (Note 1)	$R_{\theta JA}$	60					$^\circ C/W$
	$R_{\theta JL}$	20					
VR=4.0V, f=1MHz Type junction capacitance	C_j	350		380	400		pF
Operating junction	T_j	-55 --- +125		-55 --- +150			$^\circ C$
Storage temperature rang	TSTG	-55 --- +150					$^\circ C$

Note:

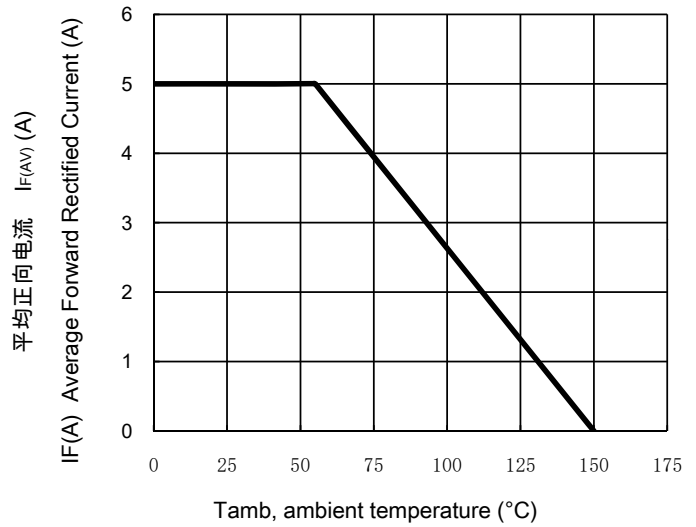
1) Thermal resistance from junction to ambient, PCB mounted.

Characteristic Curves

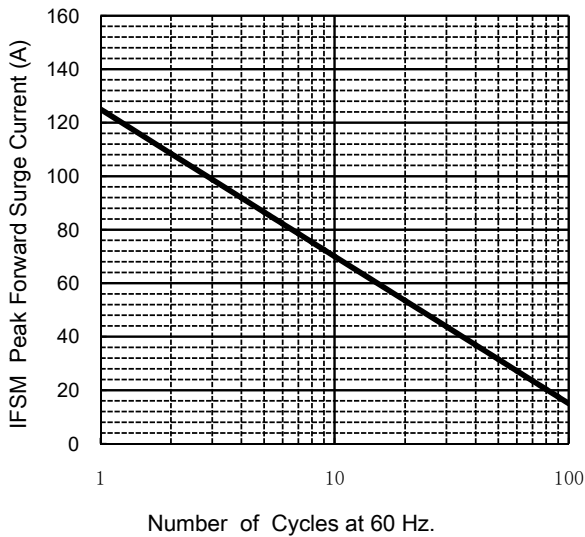
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics

