

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



DO-214AB/SMC

Mechanical Data

- Case:DO-214AB 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.

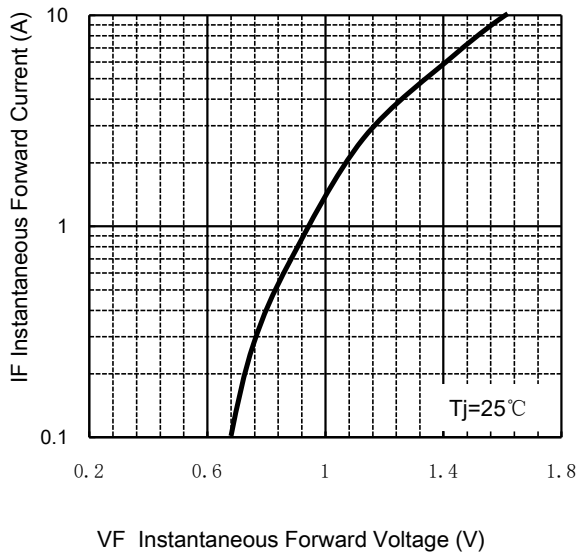
Parameter	Symbols	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	3.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	100							A
@ $I_F=3.0A$ Maximum forward voltage	V_F	1.30							V
@ V_{DC} Maximum reverse current	I_R	10							μA
$T_A=25^{\circ}C$		100							
$I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$ MAX. reverse recovery time	T_{RR}	150				250	500	nS	
Typical thermal resistance (Note 1)	$R_{\theta JA}$	55							$^{\circ}C/W$
$VR=4.0V, f=1MHz$ Type junction capacitance	C_J	65							pF
Operating junction and storage temperature rang	T_J, T_{STG}	-55 --- +150							$^{\circ}C$

Note:

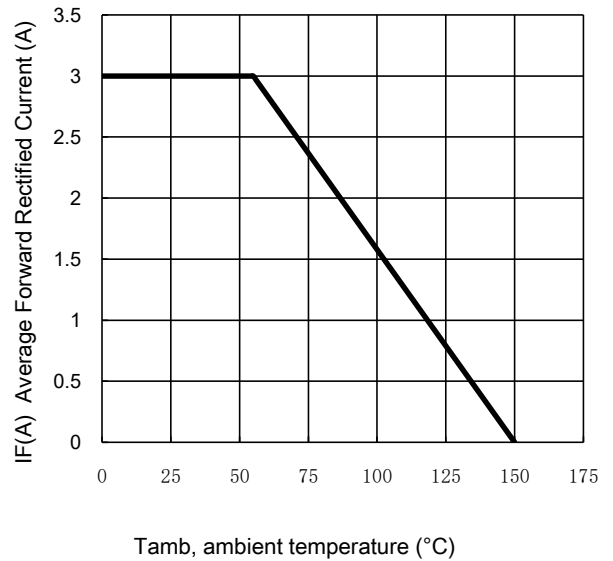
1) Thermal resistance from junction to ambient, PCB mounted.

Characteristic Curves

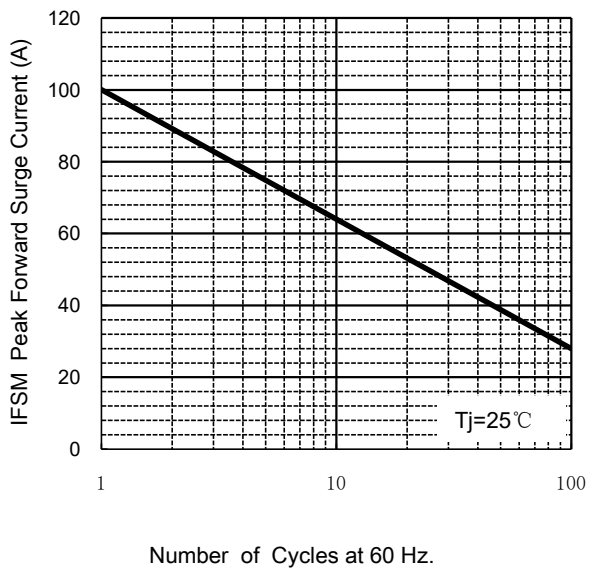
TYPICAL FORWARD CHARACTERISTIC



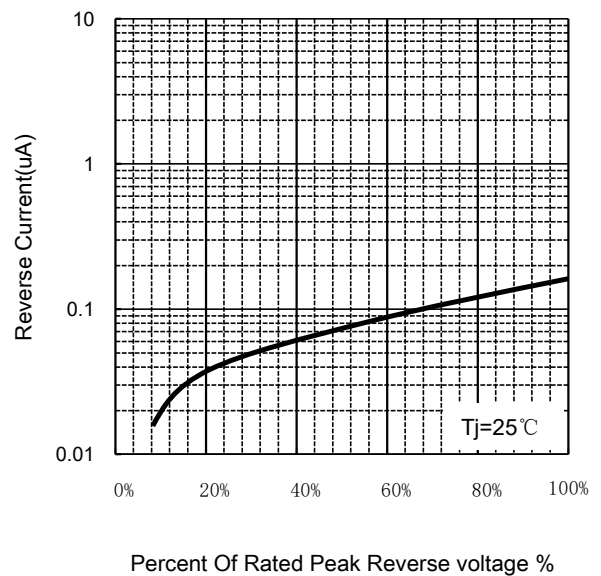
FORWARD CURRENT DERATING CURVE



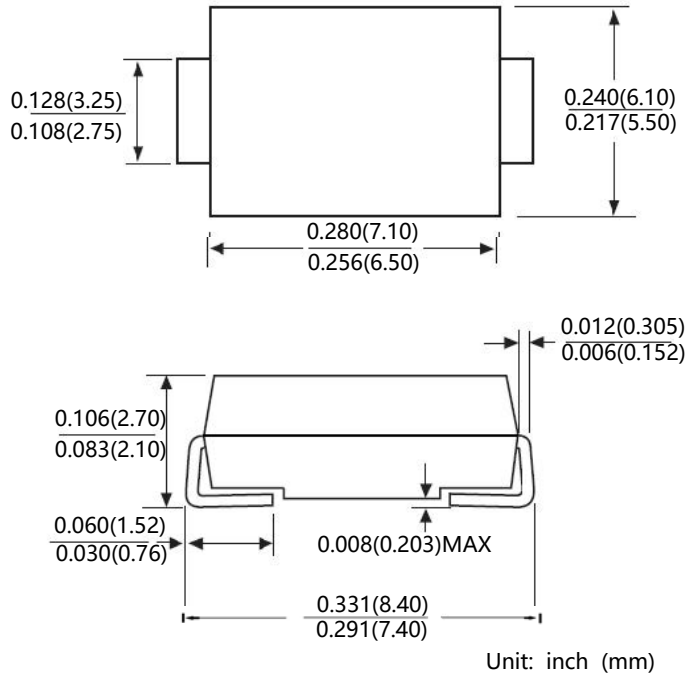
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



Package Outline



Package Information

Qty: 3,000/Tape and reel