

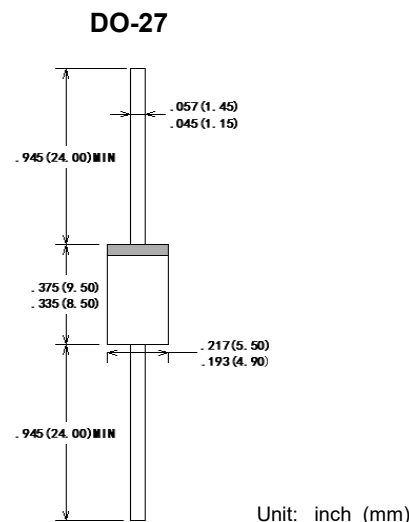
Axial Lead Schottky Barrier Diode

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260°C/10 seconds, 9.5mm lead length
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking

Mechanical Data

- Case: DO-27 Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free



Maximum Ratings & Characteristics (T_A=25°C unless otherwise noted)

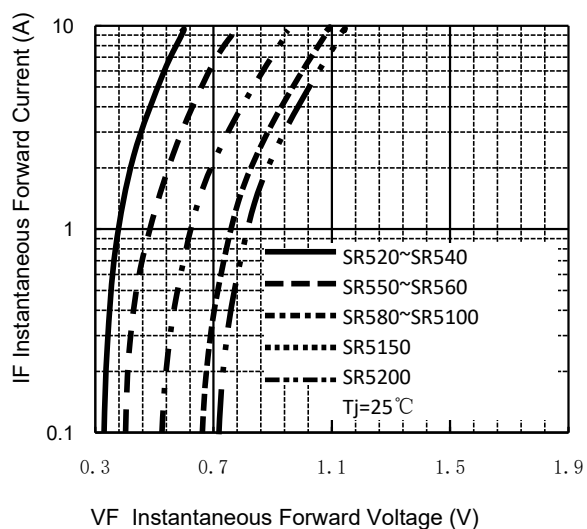
Parameter	Symbol	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	SR5150	SR5200	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	5.0									A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	150									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 _{DC} TA= 25°C TA= 100°C	I _R	0.5					0.05				mA
		20					10				
Typical thermal resistance (Note 1)	R _{θJA}	20									°C/W
	R _{θJL}	10									
Type junction capacitance V _R =4.0V,f=1MHz	C _J	500					400				pF
Operating junction temperature rang	T _J	-55 --- +125					-55 --- +150				°C
Storage temperature rang	T _{STG}	-55 --- +150									°C

Note:

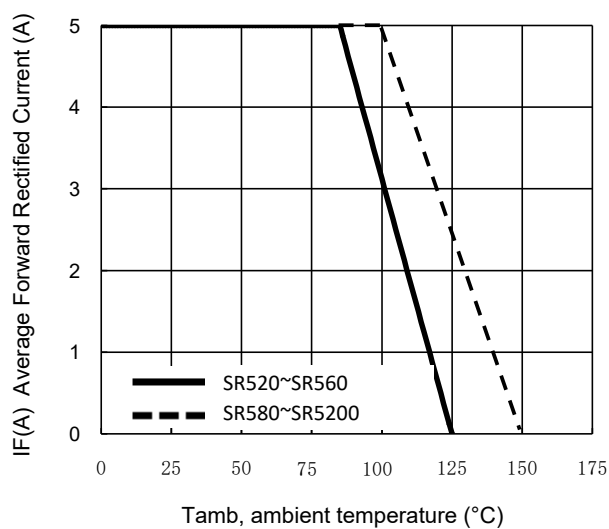
1) Thermal resistance from junction to ambient , PCB mounted.

Characteristic Curves

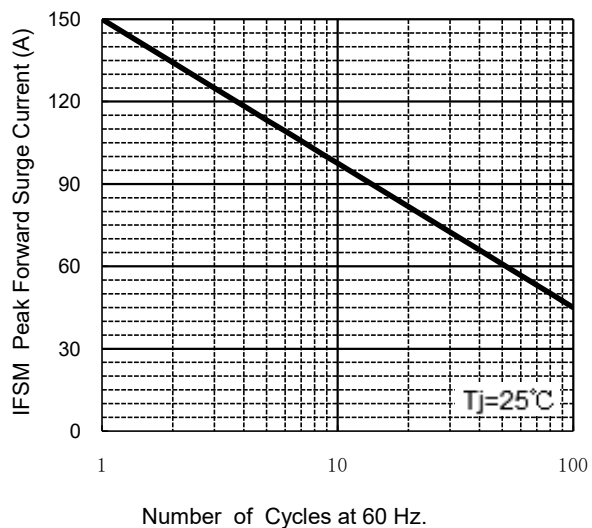
Typical Forward Characteristic



Forward Current Derating Curve



Maximum Non Repetitive Peak
Forward Surge Current



Typical Reverse Characteristics

