

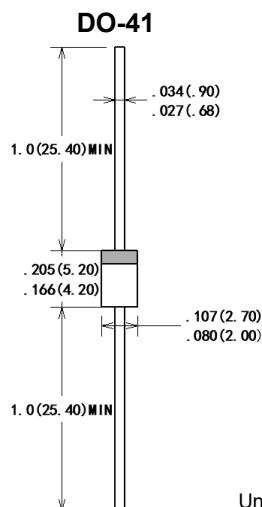
Axial Lead Schottky Barrier Diode

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- AEC-Q101 qualified
- 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-41 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	SR160-Q	SR1100-Q	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	60	100	V
Maximum RMS voltage	V _{RMS}	42	70	V
Maximum DC blocking voltage	V _{DC}	60	100	V
Maximum average forward rectified current	I _{F(AV)}	1.0		A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	30		A
Maximum forward voltage@I _F =1.0A	V _F	0.70	0.85	V
Maximum reverse current@V _{DC}	I _R	0.2	0.1	mA
		20	10	
Typical thermal resistance (Note 1)	R _{θJA}	50		°C/W
Type junction capacitance VR=4.0V,f=1MHz	C _J	90		pF
Operating junction	T _J	-55 ~ +125	-55 ~ +150	°C
Storage temperature rang	T _{STG}	-55 ~ +150		°C

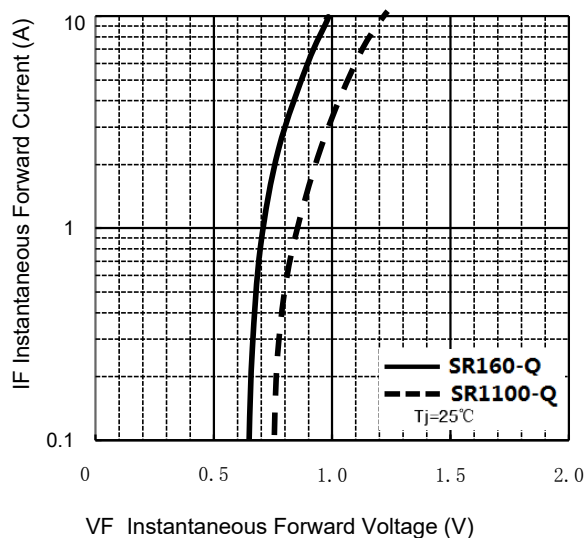
Note:

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

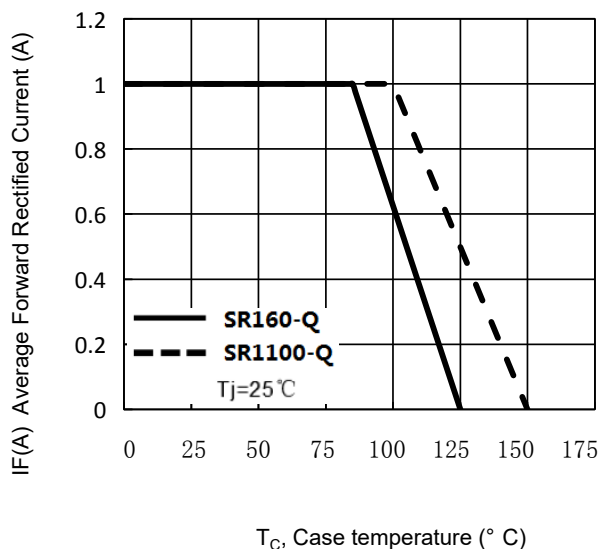


Characteristic Curves

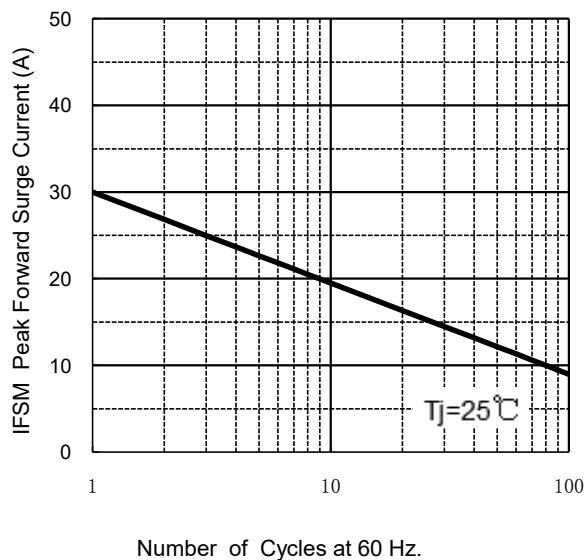
Typical Forward Characteristic



Forward Current Derating Curve



Maximum Non Repetitive Peak
Forward Surge Current



Typical Reverse Characteristics

