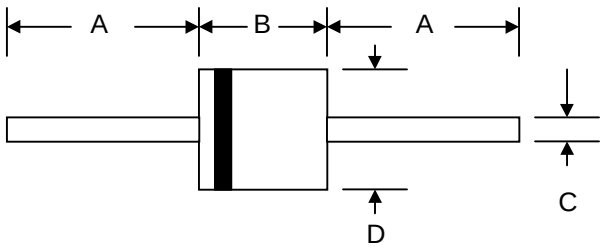
山东迪一电子科技有限公司

15SQ030-15SQ100

15A SCHOTTKY BARRIER DIODE

FEATURES

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability



R-6		
Dim	**Min**	**Max**
A	25.4	—
B	8.60	9.10
C	1.20	1.30
D	8.60	9.10
All Dimensions in mm		

Mechanical Data

- Case: P-600, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 2.1 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version,**

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	15SQ030	15SQ035	15SQ040	15SQ045	15SQ050	15SQ060	15SQ080	15SQ100	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	35	40	45	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	21	24.5	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	30	35	40	45	50	60	80	100	V
Maximum Average Forward Rectified Current@Tc=95 ℃	$I_{(AV)}$	15								A
Peak Forward Surage Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I_{FSM}	275								A
Peak Forward Voltage at 10A DC(Note1)	V_F	0.55				0.7		0.8		V
Maximum DC Reverse Current @Tj=25℃ at Rated DC Bolcking Voltage @Tj=100℃	I_R	0.5 50								mA
Tyical Junction Capacitance (Note2)	C_J	450								PF
Tyical Thermal Resistance (Note3)	$R_{\theta J}$	3.0								℃/w
Operating Temperature Range	T_J	-55 to+200								℃
Storage Temperature Range	T_{STG}	-55 to+200								℃

NOTES:1.300us Pulse Width, 2%Dudy Cycle.

2.Measured at 1.0 MHZ and applied reverse voltage of 4.0VDC.

3.Thermal Resistance Junction to Case.

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FIG.1-FORWARD CURRENT DERATING CURVE

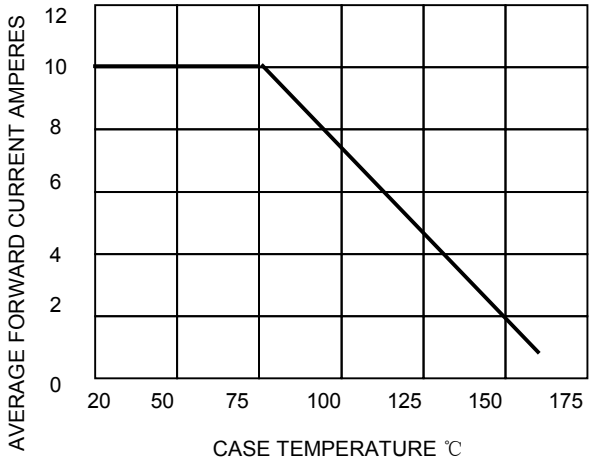

FIG.2-MAXIMUM NON-REPETITVE SURGE

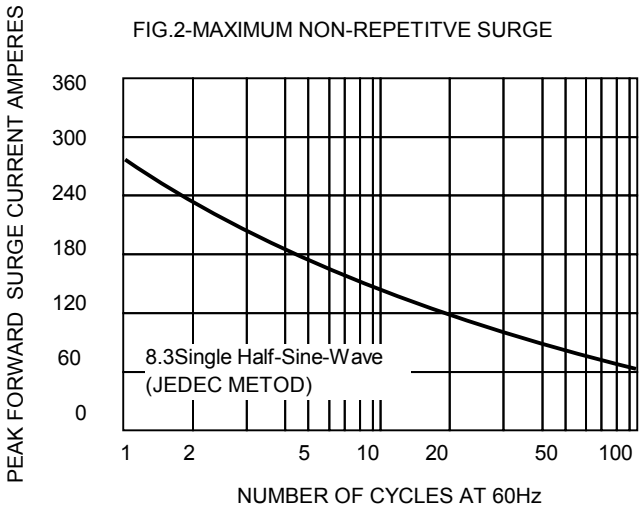

FIG.3-TYPICAL REVERSE CHARACTERISTICS

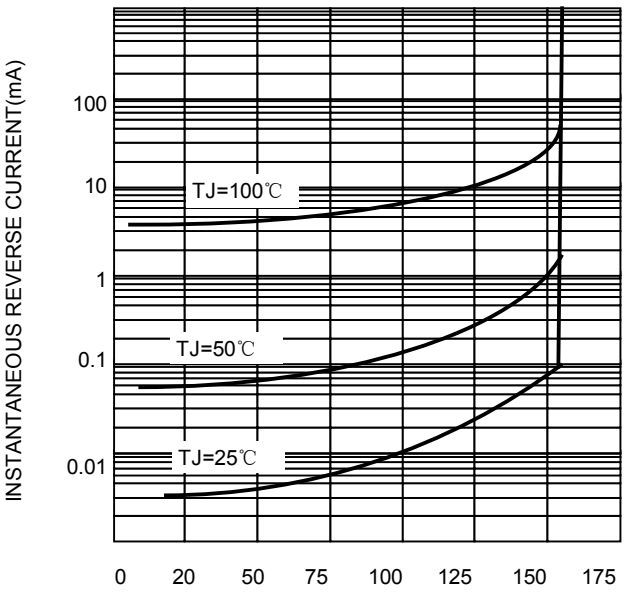

FIG.4-TYPICAL FORWARD CHARACTERISTICS

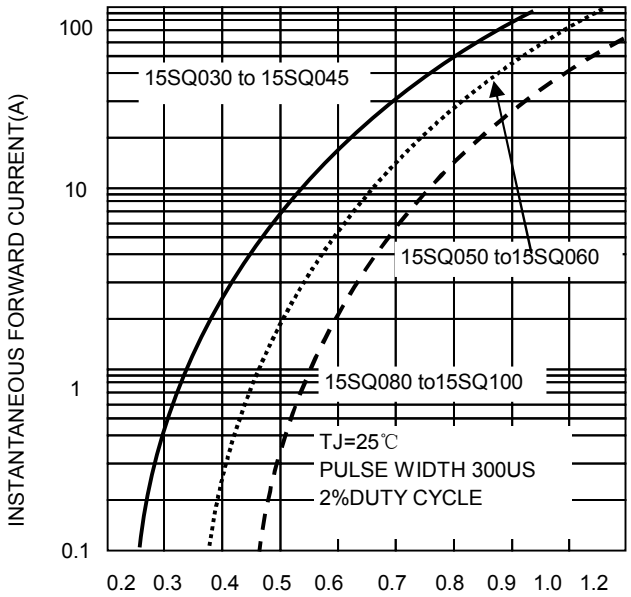

FIG.5-TYPICAL JUNCTION CAPACITANCE