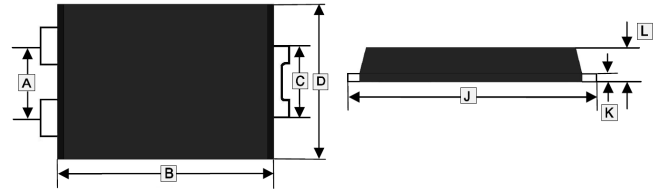


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

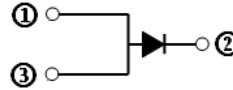
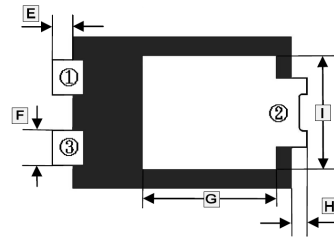
- Trench Barrier Schottly Technology
- High Thermal Reliability
- High Forward Surge Capability
- Ultra Low Power Loss and High Efficiency
- Excellent High Temperature Stability
- Plastic Material-UL Flammability 94V-0

TO-277D



PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-277D	5K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.65	1.95	G	3.25	3.85
B	5.3	5.5	H	0.45	0.65
C	1.7	1.9	I	2.9	3.2
D	3.8	4.2	J	6.4	6.6
E	0.45	0.65	K	0.3	0.45
F	0.8	1.0	L	1.0	1.2

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(T_A=25°C unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

Parameter	Symbol	Ratings	Unit
Maximum Peak Repetitive Reverse Voltage	V _{RRM}	200	V
Maximum Working Peak Reverse Voltage	V _{RWM}	200	V
Maximum DC Blocking Voltage	V _{DC}	200	V
Maximum Average Rectified Output Current	I _F	10	A
Non-Repetitive Peak Forward Surge Current @8.3ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC method)	I _{FSM}	200	A
I ² t Rating for Fusing @t<8.3ms	I ² t	166	A ² S
Typical Thermal Resistance from Junction to Case ¹	R _{θJC}	7	°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

ELECTRICAL CHARACTERISTICS

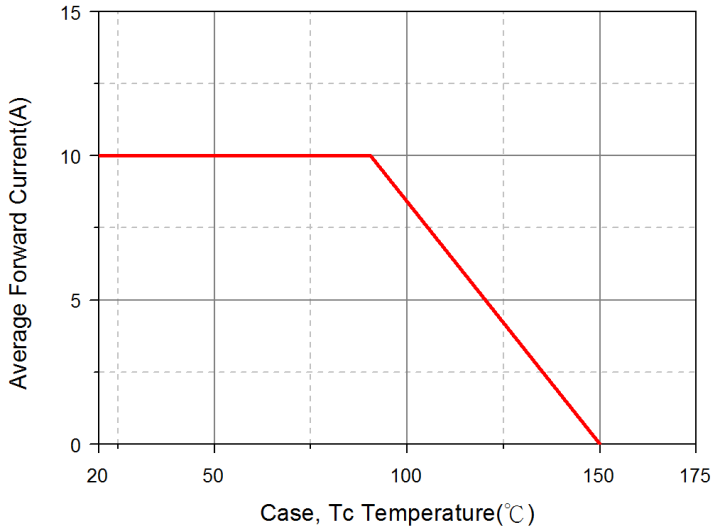
Parameter	Symbol	Typ.	Max.	Unit	Test Conditions
Maximum Instantaneous Forward Voltage	V _F	0.69	0.74	V	I _F =3A, T _J =25°C
		0.82	0.95		I _F =10A, T _J =25°C
		0.67	-		I _F =10 A, T _J =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	I _R	-	0.2	mA	T _J =25°C
		-	20		T _J =100°C
Typical Junction Capacitance ³	C _J	255	-	pF	

Notes:

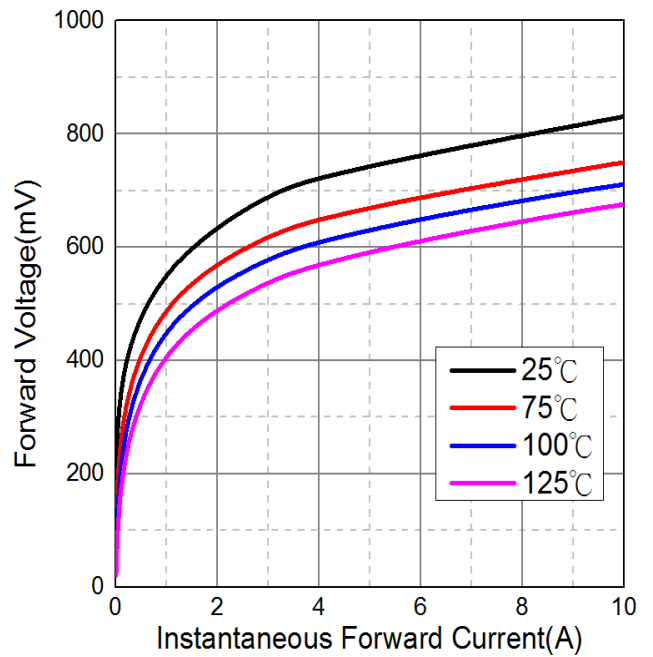
- FR4 Board Heat sink size: 10*10*0.2mm.
- Pulse Test : Pulse Width=300 μs, Duty Cycle ≤ 2.0%.
- Measured at 1MHz and applied reverse voltage of 5.0V D.C.

CHARACTERISTIC CURVES

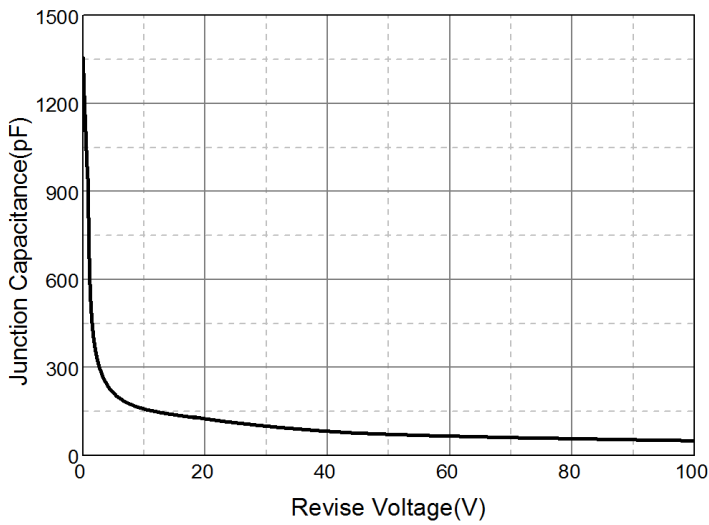
Typical Forward Current Derating Curve



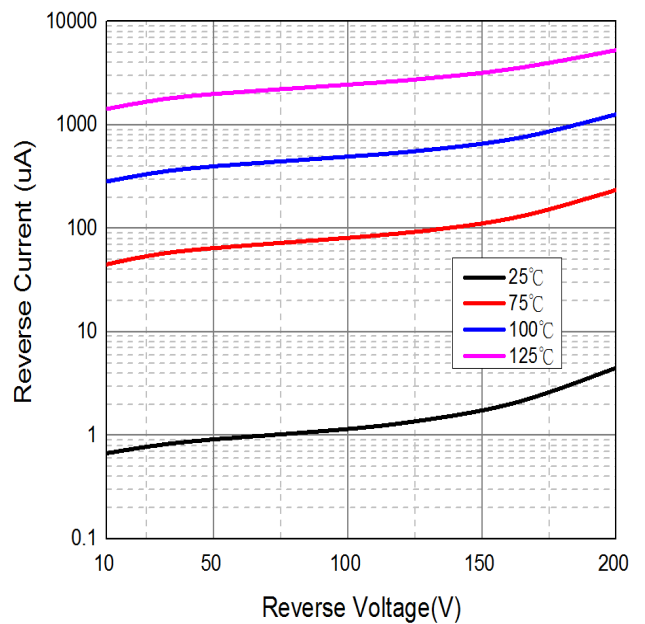
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non-Repetitive Forward Surge Current

