

Features

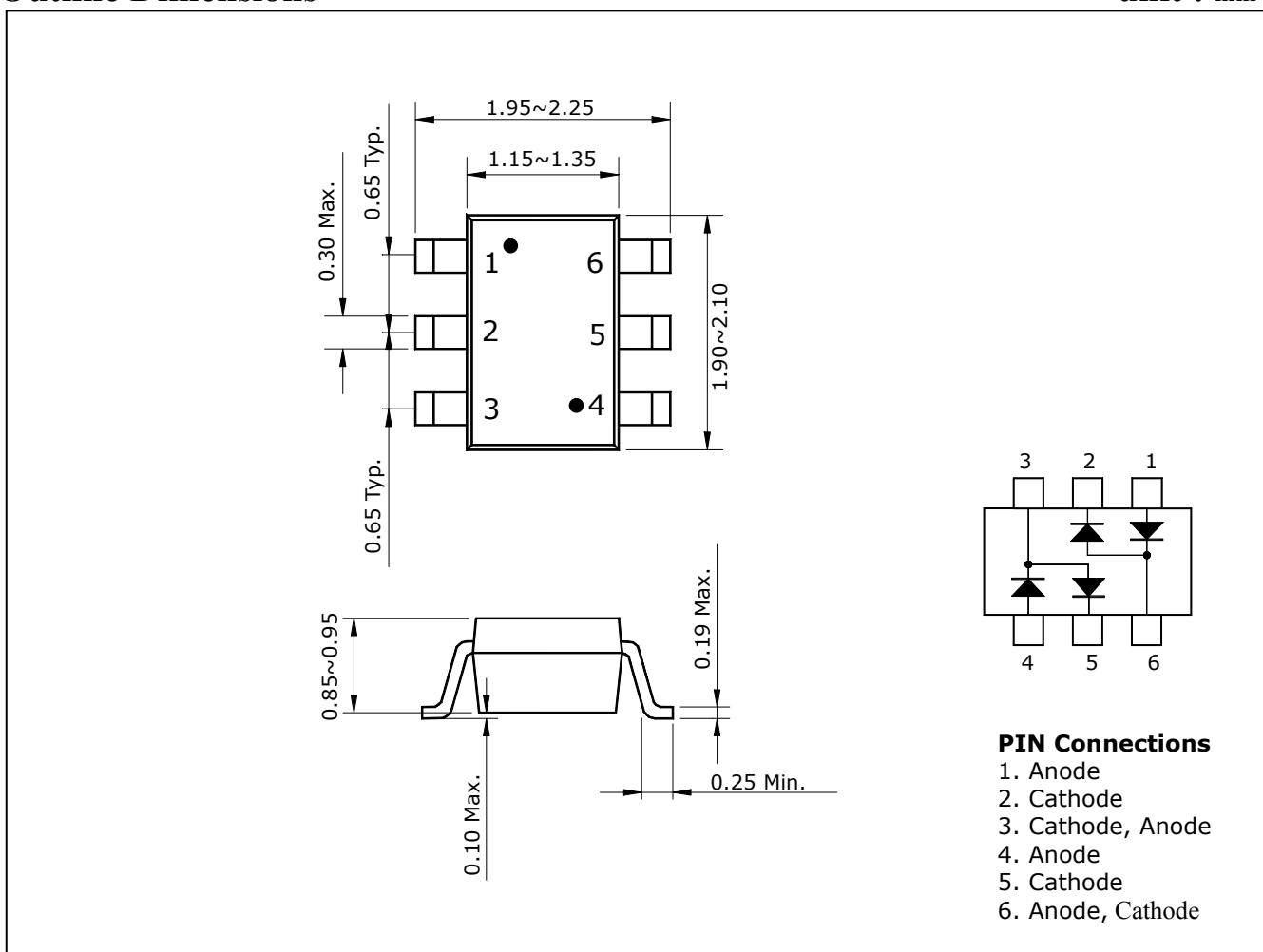
- Ultra high speed
- Fast reverse recovery time : $t_{rr}=1.6\text{ns(Typ.)}$
- Small total capacitance : $C_T=2.2\text{pF(Typ.)}$
- Three SDS914 chips in SOT-363 package

Ordering Information

Type NO.	Marking	Package Code
SUD492J	X1	SOT-363

Outline Dimensions

unit : mm



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Maximum(peak) reverse voltage	V_{RM}	85	V
Reverse voltage	V_R	80	V
Maximum(peak) forward current	I_{FM}	300	mA
Average forward current	I_O	100	mA
Surge current(10ms)	I_{FSM}	2	A
Power dissipation	P_D	150	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55 ~ 150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	$V_{F(1)}$	$I_F=1mA$	-	0.6	-	V
	$V_{F(2)}$	$I_F=10mA$	-	0.7	-	
	$V_{F(3)}$	$I_F=100mA$	-	0.9	1.2	
Reverse current	I_R	$V_R=80V$	-	-	0.5	μA
Total capacitance	C_T	$V_R=0, f=1MHz$	-	2.2	4.0	pF
Reverse recovery time	t_{rr}	$I_F=10mA, Fig. 5$	-	1.6	4.0	ns

Electrical Characteristic Curves

Fig. 1 I_F - V_F

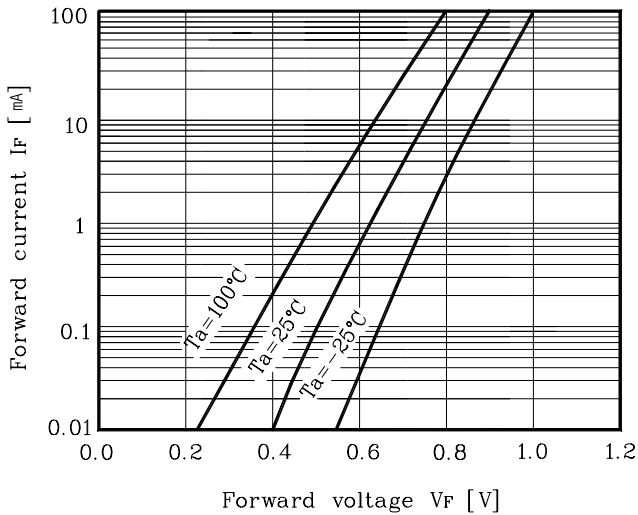


Fig. 2 I_R - V_R

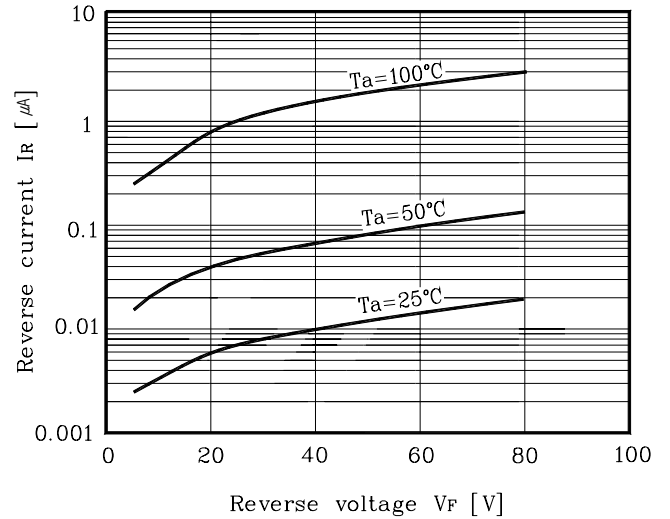


Fig. 3 C_T - V_R

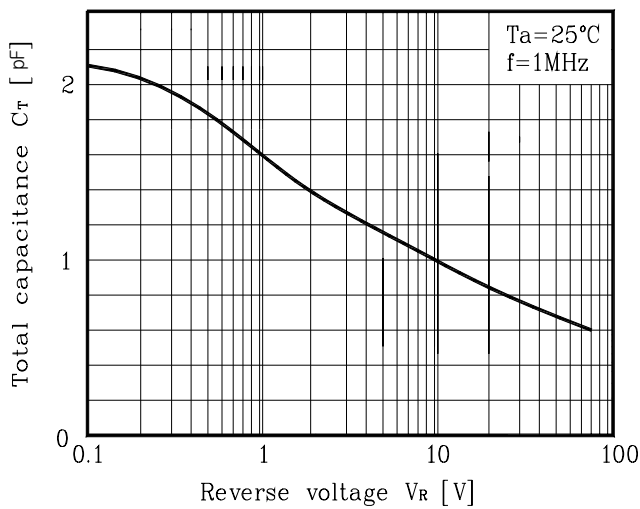


Fig. 4 t_{rr} - I_F

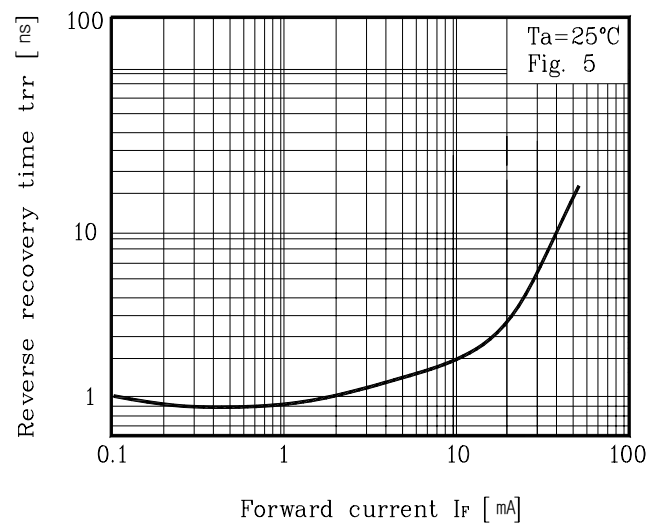
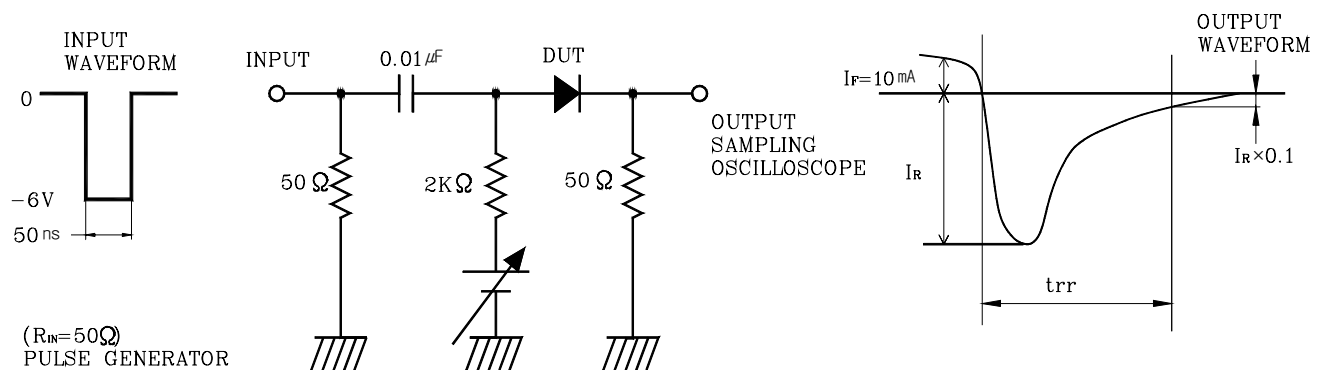


Fig. 5 Reverse recovery time(t_{rr}) test circuit



The AUK Corp. products are intended for the use as components in general electronic equipment (Office and communication equipment, measuring equipment, home appliance, etc.).

Please make sure that you consult with us before you use these AUK Corp. products in equipments which require high quality and / or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, transportation, combustion control, all types of safety device, etc.). AUK Corp. cannot accept liability to any damage which may occur in case these AUK Corp. products were used in the mentioned equipments without prior consultation with AUK Corp..

Specifications mentioned in this publication are subject to change without notice.