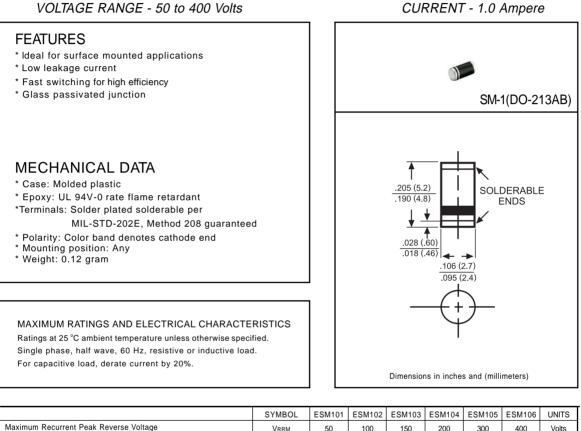
## DC COMPONENTS CO., LTD.

## RECTIFIER SPECIALISTS

THRU ESM106

ESM101

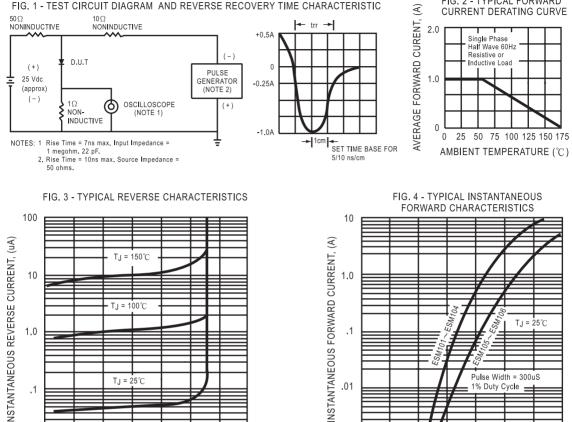
## TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SUPER FAST RECTIFIER



		SYMBOL	ESM101	ESM102	ESM103	ESM104	ESM105	ESM106	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	150	200	300	400	Volts
Maximum RMS Volts		Vrms	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	Volts
Maximum Average Forward Current at TA = 55°C		ю	1.0						Amps
Peak Forward Surge Current, IFM (surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30					Amps	
Maximum Forward Voltage at 1.0A DC		VF	0.95 1.25				25	Volts	
Maximum DC Reverse Current	@Ta = 25°C	- IR	5.0						uAmps
at Rated DC Blocking Voltage	@Ta =125°C	IK	100						
Maximum Reverse Recovery Time (Note 1)		trr	35					nSec	
Typical Junction Capacitance (Note 2)		CJ	15					pF	
Operating and Storage Temperature Range		TJ, TSTG	-65 to + 175					° C	

NOTES: 1. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.



1.0

.1

.01

.001

0

.2

.4

.6

.8

INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG. 2 - TYPICAL FORWARD

2 Š

ESM.

TJ = 25°C

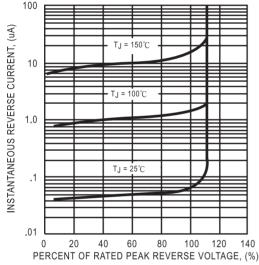
Pulse Width = 300uS

1.0

1.2

14

1% Duty Cycle



FIG, 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

